User Manual

Notebook

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Preface

Using This Manual

This User`s Manual contains general information about your notebook, hardware and software setup information, troubleshooting, and technical specifications.

Symbols and Conventions

The following conventions and symbols are used in this manual:

- When keys are to be pressed at the same time, a plus (+) symbol is used. For instance, Fn+F7 means holding Fn and F7 keys at the same time.
- The file names are printed in uppercase type. For instance, WELCOME.EXE.
- When a series of clicking actions is needed in Windows O/S, [ ] and > symbols are used. For instance, [Start > Settings > Control Panel > Multimedia] means clicking the Start icon first, then the Settings, then the Control Panel, then the Multimedia icon.
- When you need to make a selection with the touch pad (or mouse), you will be asked to `select` or `click` the item.

Note: Text in this format and symbol means specific instructions, commentary, sidelights, or any additional information or notes that you should be aware of.

Warning: Text is this format and symbol means that failures to comply with the given instructions or information could result in damage to your notebook or could cause bodily harm or loss of life.

Protecting Your Notebook - Avoid Abusive Handling and Adverse Environment

Follow the advice below will help ensure that you get the most out of your Investment.

Your computer will serve you well if you take good care of it.

- *Do not expose the notebook to direct sunlight or place it near sources of heat.*
- *Do not subject it to temperatures below 0°C (32°F) or above 50°C (122°F).*
- *Do not expose the notebook to magnetic fields.*
- *Do not expose the notebook to moisture or rain.*
- *Do not spill water or liquid on the notebook.*
- *Do not subject the computer to adverse shock and vibration.*
- *Do not expose the notebook to dust and dirt.*
- *Do not place objects on top of the notebook to avoid damaging the notebook.*
- *Do not place the notebook on rocky surfaces, uneven work place, or any fabric/ cotton materials cause bad thermal settings, for instance, bed and blanket.*

Here are some ways of taking care of your AC adapter.

- *Do not connect the adapter to any devices other than your notebook.*
- *Do not connect other Ac adapter to your notebook. This notebook uses exclusively the Ac-adapter LSE9802A2060.*
- *Do not step on the power cord or place heavy objects on top of it.*
- *Carefully tuck away the power cord and any cables away from pedestrian traffic.*
- *This notebook should be disconnected from the mains by pulling the main power cord / mains plug.*
- *Keep the adapter away from children.*
- *The total ampere ratings of the equipment plugged in should not exceed the ampere rating of the cord if you are using an extension cord.*
- *The total current rating of all equipment plugged into a single wall outlet should not exceed the fuse rating.*

Here are some ways of taking care of your battery pack.

- *Use only factory-original batteries of the same kind as replacements.*
- *Turn off the power or enter suspend mode before removing or replacing batteries.*
- *Do not tamper with the sealed battery pack.*
- *Keep the battery pack away from children.*
- *Dispose of used batteries according to local regulations.*
- *Do not expose the battery pack to fire and recycle them if at all possible.*

When cleaning the notebook, observe these steps:

1. *Power off the notebook and remove the battery pack.*
2. *Disconnect the AC adapter.*
3. *Use a soft cloth dampened with water. Do not use liquid or aerosol cleaners.*

Contact your dealer or see your service technician if any of the following occurs:

- *Notebook has been dropped or the body has been damaged.*
- *Liquid has been spilled into the product.*
- *The notebook does not operate normally.*

SECTION 1

GETTING TO KNOW THE BASICS

This section introduces the features and components of the notebook.

Performance Features

- ***High Performance Processor***

  The notebook is equipped with the supreme computing power of Intel Celeron / PIII Processor, which provides awesome performance and data processing with 128K / 256K integrated Level II Cache.

- ***AGP Graphics***

  By adapting an 2D/3D video processor with integrated Super UltraAGP technology and advanced 64-bit graphic display interface, the system delivers AGP 4x performance, up to 2 GB/s memory bandwidth and perform high quality graphics capabilities.

- ***Advanced 3D Graphics and Hardware Accelerated MPEG2/DVD Playback***

  Hardware accelerated playback gives you smooth video playback with no discernible frame drops. 3D graphics also lets your games achieve more realism.

- ***Mass Storage Capability***

  The system offers upgradable hard drive, allowing users to increase the storage capacity as the need arises.

- ***High Flexibility Design***

  The notebook provides one additional expansion compartment for the memory upgrade. User may increase the amount of memory by adding a dual inline memory module, and in any combination for system memory expansion up to 512 MB.

- ***Large LCD Display***

  The active-matrix XGA 13.3-inch TFT display (or 14.1-inch TFT XGA in some model) panel provides clear and brilliant color text and graphics.

- ***Keyboard and Touch Pad***

  The full-size keyboard, supported two win98 keys, and the build-in touch pad device, located at the center of the ergonomic plamrest, increase the work effeciency and productivity.

- ***Advanced Battery Pack***

  The state-of-the-art Nickel Metal Hydride battery or Li-Ion battery enables longevity, lightweight, and fast recharging.

- ***A Variety of Communications***

  The system provides a total communication solution for Network connection, Internet Access, and cableless data transmission. The built-in network adapter allows you to access and transmit data on the Local Area Network. The built-in 56-Kbps V.90 modem enables fast data and fax communication, without sacrificing a valuable PC Card slot. Your notebook's infrared transceiver allows for wireless point-to-point communication with other systems or devices equipped with an infrared port.

- ***Audio Features***

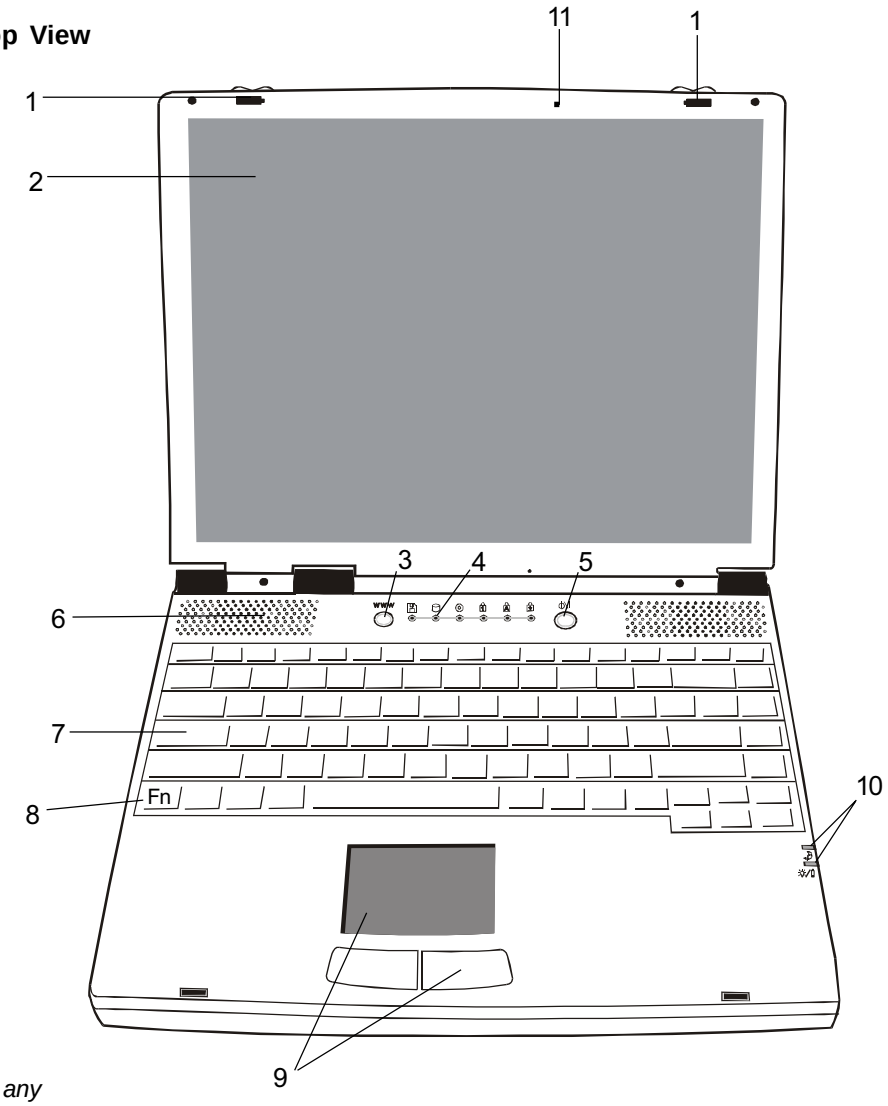
  The system is equipped with internal audio record and playback functions, including 3D (three-dimensional) audio, 64-voices DirectSound channel support, and built-in hardware wave-table.

- ***Integrated I/O Ports***

  This notebook offers a full array of built-in I/O ports. The system is also equipped with a Universal Serial Bus port for a new generation of USB-compliant peripherals.

System at a Glance

Top View



Warning:
Do not place any heavy objects on the top of notebook when the latches are on. That may damage the display.

1. **LCD Latches**
   The left and right LCD latches lock/unlock the LCD panel.

2. **LCD Display Panel**
   This notebook is equipped by the liquid crystal display with XGA.

3. **Internet Hot Key** WWW

The `Internet Hot Key` activates the modem dial-up networking process and opens the Internet browser automatically. (See side Note.)

Note:
To use the Internet Hot Key feature, you must
1. install the Windows network dialer with a valid Internet access account (from an ISP),
2. install the special Internet Hot Key application contained in the factory CD-ROM (d:\Driver \ Qbrowse \ Setup.exe), and
3. install Microsoft Internet Explore 4.0 or higher.

4. **LED Status Indicators**

The LED Status indicators reveal the locking/unlocking of certain key functions and HDD/CD-ROM component status. (Refer to Page 1-11,12)

5. **Power/Suspend Button**

The power/suspend button turns the notebook on and off and it also acts as a system suspend key. This notebook uses a special one-button design. Press momentarily to turn on the system. Press and hold for at least 3~4 seconds to turn off the system. Once the system enters DOS/Windows, pressing the key momentarily will trigger system suspend mode. Press the power/suspend button again to return from the suspend mode. (See Section 3 for more details on system suspend function.)

6. **Built-in Speakers**

The built-in speakers output the sound in stereo.

7. **Keyboard**

The enhanced 86/87-key keyboard is used to enter data, including the Windows Start Key, Application Manu Key for windows95/98/NT4.0, embedded numeric keypad and cursor control keys (Refer to Page 1-14,15).

8. **Fn Key**

The Fn key is used with the function keys to activate the hot-key functions. (See Page 1-15)

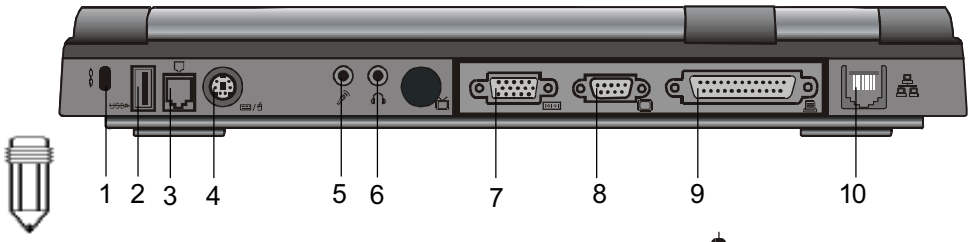
9. **Touch Pad**

The touch pad is a built-in pointing device with functions similar to a mouse.

10. **LED System Indicators**
The Indicator shows the system`s power/suspend status. (Refer to Page 1-13)

11. **Built-in Microphone**
The microphone built-in provides an integrated source for adding sound to your applications or for using the speech functions of your applications. It takes the application, such as audio software, capable of using audio input to make use of the microphone.

Rear View



Note:
For the system running the Windows NT platform,USB function was not supported.

1. **Kensington Security Anchor**
This anchor can be used with a mechanical lock and Kensington-type cable. With this function, you may have the notebook locked to an appropriate location for security issue.

Warning:
Do not open the CPU heatsink/fan cover. Doing so may result in permanent system electrical damage, which is not covered by the manufacturer`s warranty.

2. **USB Port**
The Universal Serial Bus (USB) port allows you to connect a wide variety of devices via the USB cable to your notebook and is also able to connect up to 128 devices through this single port, at very high data transfer rates of up to 12 Mbps (Mega-bits per second).
This port conforms to USB plug-and-play standards.

3. **Modem Port**
This is where you plug the phone jack (RJ-11) for activating fax/modem functions.

4. **PS/2 Port**

The notebook is designed to use one pointing device at once time. This is where you connect a external PS/2-compatible devices such as a mouse or keyboard.

5. **Mono Microphone Jack**

The mono microphone jack (3.5-mm diameter) is where you connect a microphone. To avoid the malfunction, please disable the built-in Microphone.

6. **Stereo Headphone Jack**

The stereo headphone jack (3.5-mm diameter) is where you connect the headphones or external speakers. With this function on, please disable the internal built-in speakers.

7. **External VGA Port**

The 15-pin VGA analog port is for connecting the external CRT monitor or projector.

8. **Serial Port**

This is where you connect a serial device via a 9-pin serial (RS-232) cable.

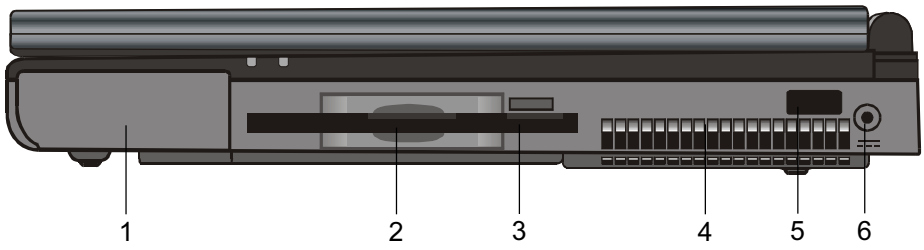
9. **Parallel Port**

The 25-hole parallel port is primarily where the printer signal cable attached. (The FDD module with the supplied parallel-port cable can be plugged into this port also.)

10. **LAN Port**

The port connects to a network hub via the RJ-45 cable and also conforms to 10Base-T and 100Base-TX transmission protocols.

Right-side View



Note:
For the system running the Windows NT platform,USB function was not supported.

1. **Battery Pack**
   The battery pack is a built-in power source for the notebook.

2. **Floppy Drive**
   The floppy drive was also fixed inside the system.

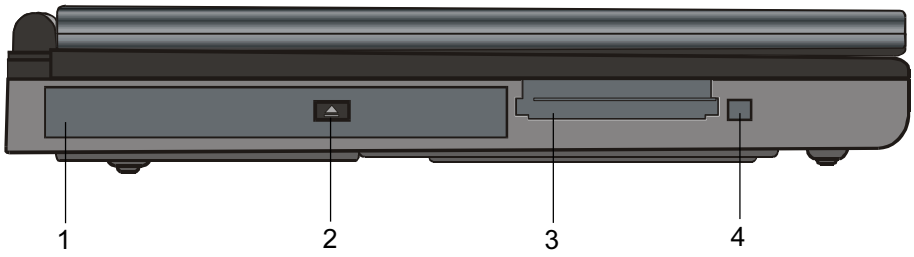
3. **Floppy Eject Button**
   With this button, you may have the floppy diskette ejected.

4. **Fan Grill**
   The fan grill is where hot air is expended. Do not block this airway completely.

5. **Infrared Port**
   Infrared Data Association (IrDA) compliant serial infrared port enables 4Mbps (FIR mode) cableless data transfer with IrDA 1.1-compatible external devices.

6. **Power Jack (DC-in)**
   This is where the DC end of the AC Adapter connected to your machine.

Left-side View



1. **CD-ROM**
   The CD-ROM device was fixed inside the notebook.

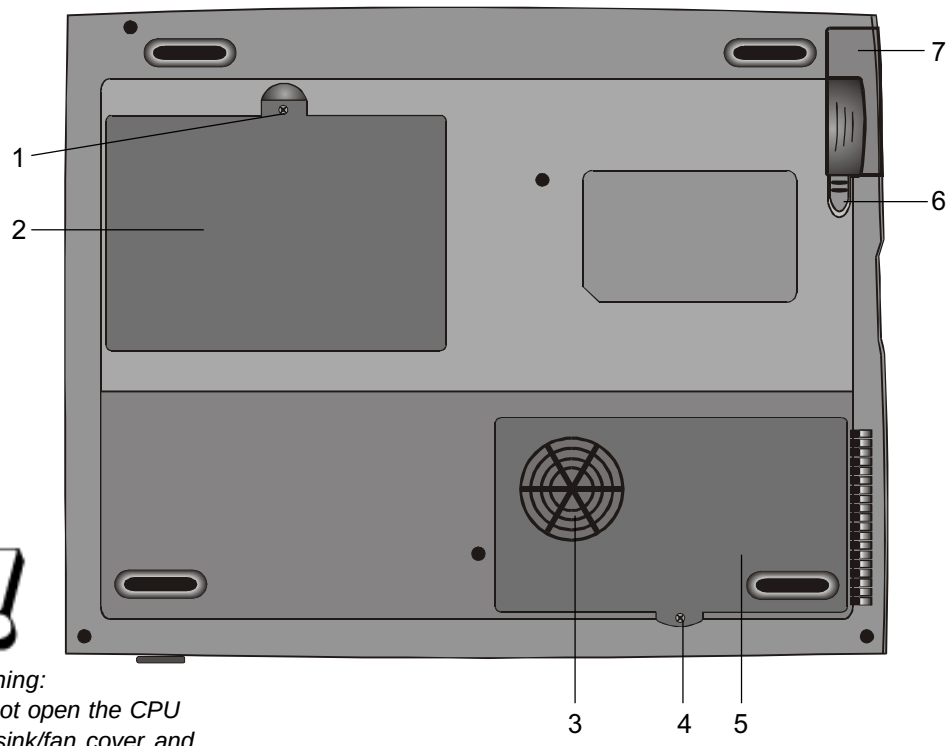
2. **CD-ROM Eject Button**
   The eject button opens the CD-ROM tray.

3. **PC Card Slot**
   The slot is where PC Card (PCMCIA) is inserted.
   A PC Card slot with connectors for two 3.3V/5V cards, and both of them support CardBus technology.

4. **PC Card Eject Button**
   With this button, you may have the PCMCIA card ejected.

Note:
There are two kind of types of CD-ROM might be installed as shipped. One is electrical and the other is mechnical. Basically, the mobile computor is equipped to the electrical CD-ROM. With this device, you can do the CD-ROM ejection only if the system is on. As for bundling the mechnical type, the ejection button works all the time, even the system is powered off. Please be also noted, the mechnical one is not avaliable to eject the CD-Disk by performing Fn key under the running Windows 98 operating system.

Bottom View



Warning:
Do not open the CPU heatsink/fan cover and do not block this airway completely.
Otherwise it may result in permanent system electrical damage or cause thermal issue which is not covered by the manufacturer`s warranty.

1. **Fixing Screw**
The fixing screw locks the hard disk drive bay cover, which prevents the hard disk drive from dust and dirt, in place.

2. **Hard Disk Drive Bay**
This is where the hard disk drive located. The hard disk drive stores all the system data. For the flexible design, the hard disk drive can be upgraded to a larger capacity. (Refer to Section 4 for instructions on a hard drive upgrade.)

3. **CPU Heatsink/Fan Bay Cover**
The CPU heatsink/fan bay is where the air is drawn into the notebook for internal thermal regulation. Do not block this airway completely. Do not remove this cover. There is no user-serviceable parts inside.

Warning:
As upgrating your CPU, please be cautioned against the heatsink/ fan. The axle of heatsink might be twisted by heavy press. It is not covered by the manufacturer`s warranty.

4. **Fixing Screw**
The fixing screw locks the CPU heatsink/fan bay cover, which prevents the CPU module from dust and dirt, in place.

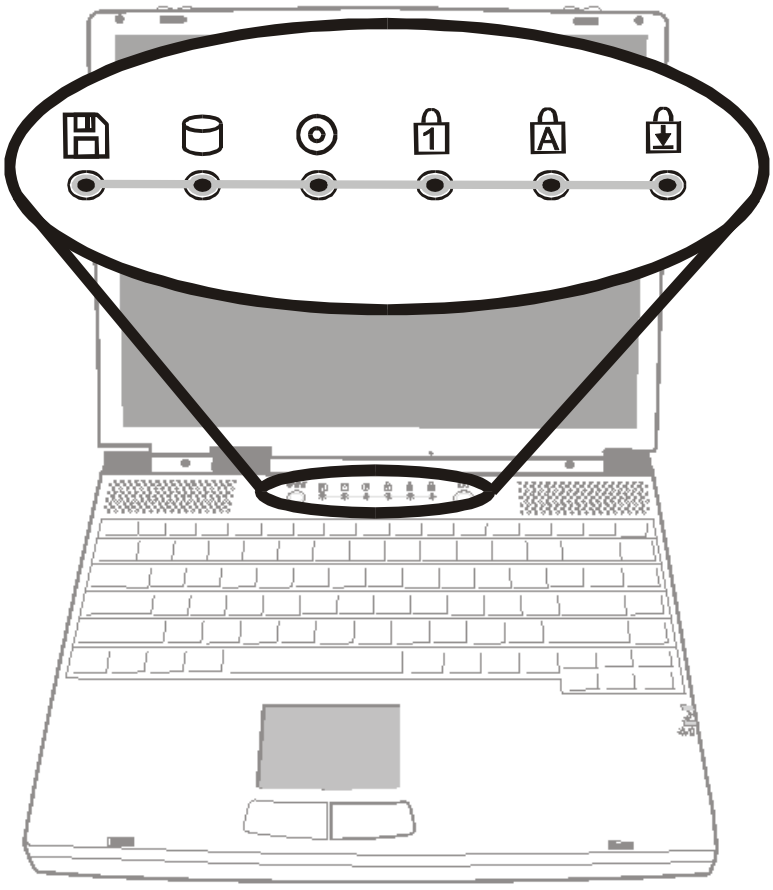
5. **CPU Heatsink/Fan Bay**
   The bay is where the CPU be installed.

6. **Battery Latches**
   The battery latches locks or releases the battery pack.

7. **Battery Pack**
   The battery pack is a built-in power source for the notebook.

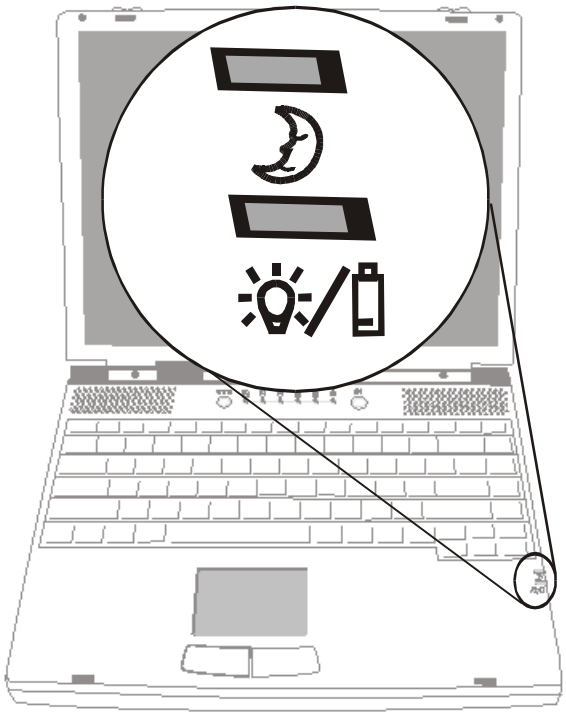
LED Status Indicators

The indicators under the LCD display panel, show as follow, inform you the current operating status of your notebook. As a certain function is enabled, the represented indicator will illuminate. The icons or symbols are captured as follow and descipted in detail.



LED Graphic Symbol	Indication
	Green light indicates the floppy drive is being accessed.
	Green light indicates the hard drive is being accessed.
	Green light indicates the CD-ROM drive is being accessed
	Green light indicates the numeric keypad is activated.
	Green light indicates the cap-lock is activated.
	Green light indicates the scroll-lock is activated.

LED System Indicators



Symbol	Indication
	Yellow light indicates the notebook is in suspend mode. As LED is in flash, it means the notebook is in POS mode. LED would be off when it is in the STD mode.
	Blinking red light indicates the battery is being charged (the system is OFF.) Blinking orange light indicates the battery is being charged (the system is ON.) Blinking green light indicates the battery power is currently low.

KeyBoard

The notebook is designed to use one keyboard at once time. Please disable the built-in keyboard before activating the exteranl one.

The main interface of input in the portable PC would be the keyboard. The keyboard has all the functionality as a standard computing 101 typing keys. It provide the alternate functions as embedded numeric keypad, shortcut windows key, system operation hot keys. The desciption below present all the details you need to know.

The cursor (arrow) keys, which are located in the lower-right corner of keyboard, and the [Pg Up], [Pg Dn], [Home] and [End] keys, which are located along the edge of keyboard, allow you move the active cursor to various locations on the screen or within the document.

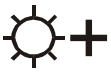
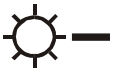
The [Ins] and [Del] keys at the bottom of the keyboard to the left of the cursor keys allow you to insert and delete characters. Your computer also has an embedded numeric keypad. Get more detailed information at Page 1-18 Embedded Numeric Key Pad.

Your keyboard also has two Windows 95 keys:

1. **Start Key** with Windows logo:
   This key allows you to pull up the Windows Start Menu at the bottom of the taskbar.

2. **Application Menu Key** which looks like a menu with a cursor on:
   This key brings up the popup menu for the current application that is Windows 95 compatible. This function is similar like a click of the right mouse botton.

Function (Hot) Keys

Graphic Symbol	Action	System Control
	Fn + F1	Enters Suspend Mode.
	Fn + F2	Mute
	Fn + F3	Toggles between Battery Warning Beep on and off.
	Fn + F4	Switches Display Mode: LCD-only, CRT-only and dual-display.
	Fn + F5	Turns Speaker Volume up.
	Fn + F6	Turns Speaker Volume down.
	**Fn + F7**	Increases Display Brightness.
	**Fn + F8**	Decreases Display Brightness.
	Fn + F9	Increases Display Contrast. (DSTN Only)
	Fn + F10	Decreases Display Contrast. (DSTN Only)
	Fn + Num Lock	Enables the embedded keypad to work in numeric mode. The keys function as a calculator. Use this mode when you need to do a lot of numeric data entry. An alternative would be to connect an external keypad.
	Scroll Lock	Pressing the ScrLk key allows the screen to move one line up or down when you press ↑ or ↓ respectively. Scroll Lock may not work with some applications.

SECTION 2

BIOS SETUP AND SECURITY

In this section, you will learn how to enter the BIOS Setup Menu and manipulate various hardware control settings. You will also learn how to use the built-in security features.

The Setup Utility is a hardware configuration program built into your notebook's BIOS (Basic Input/Ouput System). It runs and maintains a variety of hardware functions. It is a menu-driven software, which allows you to easily configure and change the settings.

The BIOS contains manufacture's default settings for the notebook`s standard operations. However, there are occasions when you may be required to modify the default settings in the BIOS. For example, you may need to activate the BIOS setup program when a hardware change, such as an upgrade, occurs, or when you decide to customize the hardware settings to suite your specific needs.

The BIOS allows you to set up passwords to limit access to users. This is an important feature because a great deal of vital information is carried within the notebook nowadays. Unauthorized access can be prevented. Later in this chapter, you will learn how to use this security feature.

Entering the BIOS Setup Screen

First turn on the power. When the BIOS is performing the POST (Power-On Self Test), press DEL key to activate the AMIBIOS Setup Utility. Press DEL when you see the prompt "*Press DEL to enter SETUP*".

Leaving the BIOS Setup Screen

When you have finished modifying the BIOS settings, exit the BIOS. It takes a few seconds to record changes in the CMOS.

BIOS Action Keys

Function Key	Command	Description
ESC	Exit	Leaves a sub-menu to return to the previous menu OR exits the BIOS setup while saving changes.
F2/F3	Change Color	Changes the background color of the BIOS Setting Utility.
F10	Save and Exit	Saves changes and reboots the notebook.
<Tab>	Select a field	Selects the next field.
<Enter>	Select	Enters the value or selects the sub-menu.
←	Select a menu	Selects the next.
→	Select a menu	Selects the next left menu.
↑	Select an item	Selects the next upper item.
↓	Select an item	Selects the next lower item.
PgUp	Lower value	Selects the next lower value within a field.
PgDn	Higher value	Selects the next higher value within a field.

Note:
Under certain settings, the fields are grayed out. Grayed out fields are not changeable.

Modifying the BIOS Settings

The AMIBIOS setup main menu is subdivided into few sub-menus as follow. Each menu item is decribed in this section.

The Setup Main Menu

AMIBIOS HIFLEX SETUP UTILITY VERSION x.xx (c) 2001 AMERICAN MEGATRENDS, INC. ALL RIGHTS RESERVED			
STANDARD CMOS SETUP ADVANCED CMOS SETUP POWER MANAGEMENT SETUP PERIPHERAL SETUP AUTO-DETECT HARD DISKS CHANGE USER PASSWORD CHANGE SUPERVISOR PASSWORD DEFAULT SETTINGS SAVE SETTINGS AND EXIT EXIT WITHOUT SAVING			
Esc: Exit	↑↓: Sel	F2/F3: Color	F10: Save & Exit

The Menu of Standard CMOS Setup

Standard CMOS Setup for changing time, date, hard disk drive type and etc. All standard setup options all decribed in this section.

Item	Selections / Sub-menu	Description
Date	N/A	Type in the current date. It must be entered in MM/DD/YY format.
Time	N/A	Type in the current date. It must be entered in HH:MM:SS format.
Floppy Drive A:	Not installed 360 KB $5^1/_4$ inch 1.2 MB $5^1/_4$ inch 720 KB $3^1/_2$ inch 1.44 MB $3^1/_2$ inch	Choose one that fits your particular need.
Pri Master	Not installed Auto ARMD CD-ROM 1-46 User	Primary Master is where BIOS tries to boot from first. The primary master controls the hard drive. The drive capacity is displayed in this field.
Sec Master		The secondary master controls the CD-ROM drive.
Sec Slave		
Boot Sector Virus Pro-tection	Disabled Enabled	To enable or disale the boot sector protection. BIOS would pop out a warning if any application or virus is trying to issue a disk format command to have boot sector written.

If enabled, the following appears when a write is attempted to the boot sector. You may have to type “N” several times to prevent the boot sector write.

Boot Sector Write!!!
Possible VIRUS: Continue (Y/N)? _

The following appears after any attempt to format any cylinder, head, or sector of any hard disk drive via the BIOS Hard Disk Drive Service:

Format!!!

Possible VIRUS: Continue (Y/N)? _

The Detailed Description of Hard Disk Drive Setting

Select Auto and let BIOS to configure the drive parameters automatically. After press "Enter", BIOS display the drive parameters. If the dectected drive paramters were not correct or you're trying to enable the enhanced IDE feature, you may still change the value manually.

Note: AMIBIOS automatically sets IDE drive parameters. Set the setting as "USER" to enter the MFM, ESDI, or DLL drive parameters. Select "Not Installed" for SCSI Drive. Choose "CDROM" option for ATAPI CD-ROM drive.

- LBA Mode: (Large Mode)
  Select "On" if the drive has a capacity larger than 540MB.
- Blk Mode: (Block Mode)
  Select "On" is to allow blocking data transmission.
- 32 Bit Mode:
  Select "On" to allow data tranmission in 32 bit.
- PIO Mode:
  It is suggested to select "Auto" to let BIOS arrange the PIO mode setting. If the selected PIO mode is not supported by the IDE drive, the hard disk drive won't work properly. If the drive PIO mode is known, you're certainly may select the appropriate PIO mode from 1 to 5.

Entering Drive Parameters

Any hard disk drive, Primary Master, Primary Slave, Secondary Master and Secondary Slave, to be configured as Hard Disk Drive Type between **1-46**, you may need to enter the correct drive parameters.

The Decription of Drive Parameters

Parameter	Description
Type	The number for a drive with certain identification parameters.
Cyln	The number of cylinders in the disk drive.
Heads	The number of heads.
WPcom	The actual physical size of a sector gets progressively smaller as the track diameter diminishes. This parameter is the cylinder number on the disk surface where write precompensation begins.
Sec	The number of sectors per cylinder. MFM drives have 17 sectors per cylinder. RLL drives have 26 sectors per cylinder. ESDI drives have 34 sectors per cylinder. SCSI and IDE drives have even more sectors per cylinder.

The Menu of Advanced CMOS Setup

Advanced CMOS Setup for configuring system options.

Item	Selections / Sub-menu	Description
1st Boot Device	Disabled IDE-0 Floppy CDROM	Set the type of device for the 1st boot drive that BIOS attempts to boot from after BIOS POST completes.
2nd Boot Device		Set the type of device for the 2nd boot drive that BIOS attempts to boot from after BIOS POST completes.
3rd Boot Device		Set the type of device for the 3rd boot drive that BIOS attempts to boot from after BIOS POST completes.
Boot Up NumLock	On Off	Turn the numeric keys on or off as system boots up.
TouchPad Support	Enabled Disable	Turn on or off TouchPad support
Password Check	Setup Always	[Setup]: To enable the password check function every time when BIOS Setup is executed. [Always]: To enable the password check function every time the system boots.
LCD Expand	Enabled Disabled	When enabled, the displaying content is expanded to fill the entire LCD screen in DOS mode.
Share Memory Size	8 / 16 / 32 MB (or more)	This option allows user to define the amount of system memory to be used as display memory or buffer. Share memory size may be set up to 50% of the total system memory size.

This notebook employs Share Memory architecture, which means the graphic engine use a portion of the system memory as display memory. The more system memory is allocated for display use, the less memory is available for the system use.

For example, if 8MB out of total system memory of 64MB was set as VGA shared memory, the system would only show 56MB during the Power-On Self Test (POST).

Please refer the table below to your arbitration for proper momery sharing size of VGA graphic display in BIOS.

VESA Standard Graphic Modes		Suggested Memory Sharing Size
Resolution	**Color Depth**	
640 X 480	16/256/32K/64K/16M Colors 120Hz NI	1M
800 X 600	16/256/32K/64K/16M Colors 120Hz NI	1M
1024 X 768	256/32K/64K/16M Colors 120Hz NI	2M
1280 X 1024	256/32K/64K/16M Colors 120Hz NI	4M
1600 X 1200	256/32K/64K/16M Colors 100Hz NI	8M
1920 X 1200	256/32K/64K/16M Colors 80Hz NI	8M

The Menu of Power Management Setup

Power management setup for configuring power management featuring.

Item	Selections / Sub-menu	Description
Power Management	Disabled Enabled	To disable or enable the system power management function.
Power Switch Type	On/Off Suspend	[On/Off]: Set the power switch type to On/Off function. [Suspend]: Set the power switch type to Suspend function.
LID Switch Type	Suspend Screen Off	Select “Suspend” to put the system in suspend mode when the LCD lid is closed. Select “Screen Off” to turn off LCD backlight.
Suspend Mode	Disabled POS (S1) STD (S4)	[Disabled]: System will stay on at all times. [POS (S1)]: Power On Suspend. The system will save its state to DRAM and enter standby mode. [STD (S4)]: Save To Disk. The system will save its state to disk and power off.
Standby Time Out	Disabled 1 Min, 2 Min, 3 Min, 4 Min, 5 Min, 10 Min 15 Min	Specify the period of inactivity before entering the Standby Mode.
Suspend Time Out	Disabled, 1 Min, 2 Min, 3 Min, 4 Min, 5 Min, 10 Min 15 Min, 20 Min, 30 Min	Specify the period of inactivity before entering the Suspend Mode.
Hard Disk Time Out	Disabled 1 Min, 2 Min 5 Min, 10 Min 15 Min	Specify the period of inactivity before hard disk spins down.

Item	Selections / Sub-menu	Description
RTC Alarm	Disabled Enabled	[Disabled]: The system ignores the RTC alarm and remains in suspend mode. [Enabled]: The system wakes up from the suspend mode at a time specified by the *Date / Hour / Minute / Second* fields.
RTC Alarm Date*	Every Day 1 ~ 31	Set the date of RTC alarm.
RTC Alarm Hour*	00 ~ 23	Set the hour of RTC alarm.
RTC Alarm Minute*	00 ~ 59	Set the minute of RTC alarm.
RTC Alarm Second*	00 ~ 59	Set the second of RTC alarm.

*Item with *sign means:*
The option is only available when the "RTC Alarm" is enabled.

The Menu of Peripherial Setup

Configuration for the peripherial devices and its features.

Item	Selections / Sub-menu	Description
OnBoard FDC	Auto Disabled Enabled	[Auto]: BIOS will configure the Floppy Disk Controller automatically. [Disabled]: The FDC is disabled. [Enabled]: This FDC is enabled.
OnBoard Serial Port A	Auto Disabled 3F8/COM1 2F8/COM2 3E8/COM3 2F8/COM4	[Auto]: BIOS will configure this port automatically. [Disabled]: This serial port will be disabled. [3F8/COM1-2F8/COM2 3E8/COM3-2F8/COM4]: User may define the I/O port address of this serial port.
OnBoard Serial Port B		

Item	Selections / Sub-menu	Description
Serial Port2 Mode	IrDA FIR	This option specifies the type of infrared function. [IrDA]: Standard serial IR communication. [FIR]: Fast IR communication.
IR Duplex Mode	Half Duplex Full Duplex	This option selects the infrared transmission method. [Half Duplex]: The infrared transmission method as half duplex. [Full Duplex]: The infrared transmission method as full duplex.
IR DMA Channel	0, 1, 3	This option specifies the DMA channel used for infrared function.
On-Board Parallel Port	Disabled, Auto, 378, 278, 3BC	User may define the I/O port address of this parallel port, or disable this parallel port functon, or let BIOS determine this port automatically. .
Parallel Port Mode	Normal Bi-Dir EPP 1.9 EPP 1.7 ECP	[Normal]: The normal parallel port mode is used. [Bi-Dir]: (Bi-Directional) This allows data to transfer equally in both directions on parallel port. [EPP 1.9-EPP 1.7]: Enhanced parallel port for faster performance. [ECP]: Faster data exchange than EPP.
Parallel Port IRQ	Disabled IRQ 5 IRQ 7	This is to specify the IRQ used by parallel port. [Disabled]: This will disable the IRQ used by parallel port. [IRQ 5?IRQ 7]: User may define the IRQ of this parallel port.
Parallel Port DMA Channel	(DMA Ch) 0 (DMA Ch) 1 (DMA Ch) 3	Set the DMA Channel used by the parallel port. [0-1-3]: User may define the DMA channel used by the parallel port.

The Security Issue by Using Password Protection

Two Levels of Password Protection

This BIOS provides both a Supervisor and a User password. If you try to activate both passwords, the Supervisor password must be set first.

The passwords activate two different levels of protection security:

1. Always requesting password every single time as the system is powered on.
2. A password checking procedure pops up when BIOS utility is executed.

Have the Password Check item set in Advanced CMOS Setup Menu (refer to Page 2-10, The Menu of Advanced CMOS Setup). The passwords are encrypted and stored in NVRAM. If the password protect is activated, an input 16-character password prompt appears. Make sure you write it down. If you forget it, you must have NVRAM erased and reconfigured.

The Option of Auto-Detect Hard Disk

By activation of this option, AMIBIOS will automatically detect the hard disk drive parameters. The Standard CMOS Setup menu would display after configuration of the hard drives.

The Option of Defualt Settings

It will automatically set all BIOS Setup options to a complete set of default settings when you choose this option.

The Option of Save Settings And Exit

When you have completed the system configuration modification, choose this option to leave BIOS Setup with new parameters saved and to reboot the computer. So the new system configuration parameters can take effect.

SECTION 3

BATTERY POWER AND POWER MANAGEMENT

In this section, you will learn the fundamentals of power management and how to use it to achieve longer battery life.

In this section, you will learn how to operate your notebook on battery power, how to handle and maintain the battery pack, and learn about the system`s unique Heuristic Power Management feature.

TFT display, central processor, hard disk drive, floppy disk drive are the major hardware subsystems that consume the most power. Power management deals how these key components should behave to conserve power. For example, you can have the system turn off its display after 2 minutes of inactivity to save power. Efficient power management can help you work longer sessions before having to recharge the battery.

The Battery Pack

When the notebook operates on battery power, the Battery LED indicator will be on.

Note: Make sure the battery is fully charged before using.

Ni-MH / Lithium-Ion Battery

Your notebook uses an removeable ten-cell Nickel Metal Hydride (Ni-MH) or eight-cell Lithium-Ion battery pack that provides power when you’re away from an AC outlet.
This is the main battery, you should recharge it as it is drained. Besides the main battery, it is suggested that you should also have a second battery pack as the backup power solution in your traveling.

Note: In the Save To Ram mode, a fully charged battery loses its power in roughly 1 day. When not being used, the battery`s power will deplete in 1-2 month.

Note: Do not touch the metal ends of the battery connector to avoid rusting.

Actions to Battery Warning

I. Low Battery Warning
Low battery occurs as the battery is in approximately 6% of its power remaining. Before the Very Low Battery, the green power LED indicator blinks at the same rate as the system beeps once every 16 seconds.

Warning:
Do not expose battery packs to temperatures below 0 degree Celsius (32 degree F) or above 60 degree C (140F). This may adversely affect the battery pack.

II. Very Low Battery Warning
Very Low battery occurs as the battery is in approximately 3 % of its power remaining. Before the dead battery, the green power LED indicator blinks at the same rate as the system beeps once per 4-sec increment.

The signals alert you the low battery and require the restorative action before the hibernated system. Save your document, data, and close all the applications straightaway, or else you might lose all your current work. About 5-10 minutes of battery operating time remains. You may not to keep continue unless you plug in the AC adapter or replace the charged battery.

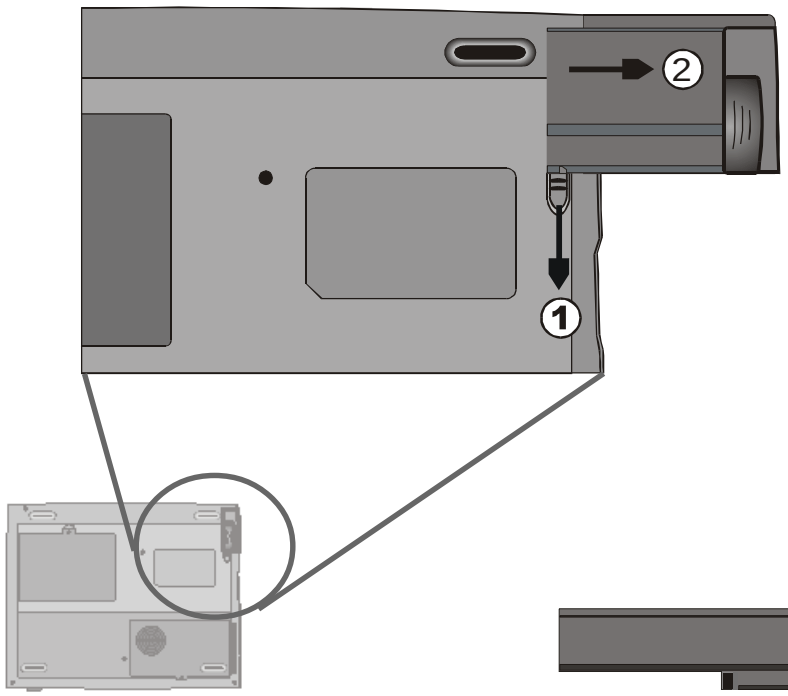
Warning:
If the "Battery Warning Beep" is disabled by the Fn + F3, the system won't generate the beep sounds.

Installing and Removing the Battery Pack

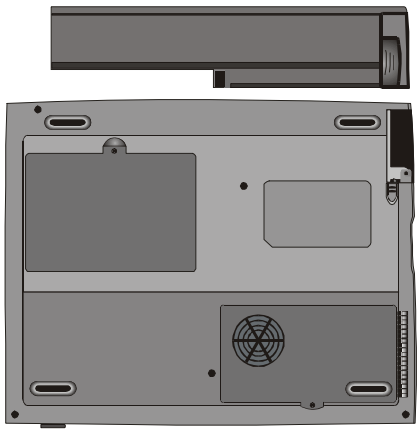
Carefully observe the illustration for this operation.

To Detach the Battery Pack:

1. Position the notebook rear-side up on a flat and secured surface.
2. Locate the battery latches. Slide the locked latch toward direcrion 1 shown by the arrow in the following figure and hold.
3. Continue holding the latches in the releasing position, and pull out the battery's module hard case toward direction 2.

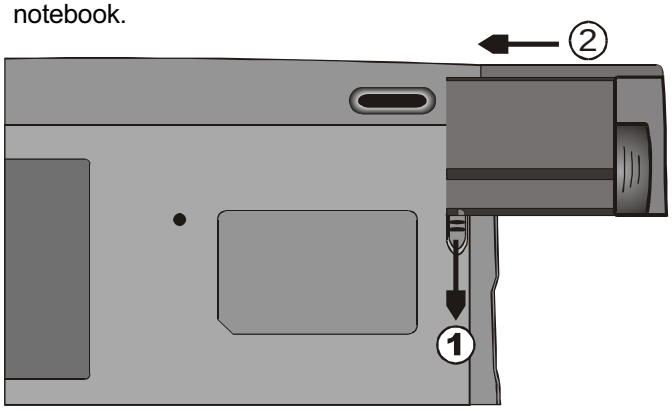


4. Lift the battery pack out of the battery compartment as the right diagram.



To Install the Battery Pack:

1. Position the notebook rear-side up on a flat and secured surface.
2. Sliding the latch in the releasing position and hold.
3. Carefully Insert the battery pack into the battery compartment of the unit until it is even with the edge of the notebook.



4. Release the latch to lock.

Charging the Battery and Charging Time

To charge the battery, while the battery pack is in the notebook, plug the AC adapter into the notebook and an electrical outlet.

The charging time is approximately 2-3 hours when the notebook is turned off and approximately 3-5 hours when the notebook is turned on.

Note:
Be sure to reserve adequate time for charging before travelling.

If your notebook is plug into an AC outlet, the battery will still be trickle-charged even when the notebook is in operation. Charging an empty battery pack in the trickle-charge mode will take about 3-5 hours to attain full charge.

When the battery is fully charged, the battery charge indicator LED emits red light intermittently.

Checking the Battery Level

You can check the remaining battery power in the Windows battery status indicator, which is located at the lower right-hand corner of the task bar. The accuracy is within +/- 5-7%.

Alternatively, you can access the power meter by clicking the Power Management icon in the Windows Control Panel.

Prolonging the Battery's Life and Usage Cycles

There are ways you can do to prolong the use of battery.

- Use the AC adapter wherever AC wall outlet is available. This will ensure uninterrupted computing.
- Purchase the optional second battery pack.
- Store the battery pack in room temperature. Higher temperature tends to deplete the battery's power faster.
- Make good use of the power management function. Save To Disk saves the most energy by storing current system contents in a hard disk space reserved for this function.
- Disable the parallel and serial ports if no devices are attached to these ports. See section 2 for details of how this is done.
- Even when PC card is not operating, it still draws a small amount of power. Eject the PC card from the card slot when not in use.
- The life expectancy of the battery is approximately 500 recharges.
- See the notices section in the beginning of the user manual on how to care for the battery pack.

Note: Read Section Protecting Your Notebook in the beginning of this manual for tips about how to maintain the battery pack.

Using Power Management

The system uses the following methods to management the power usage of various hardware subsystems.

Note:
When running on battery, try to refrain from opening too many applications at once.

Windows offers two types of power management utility: the Advanced Power Management (APM) or Advanced Configuration Power Interface (ACPI). In the Windows Power Management Properties (Start > Settings > Control Panel > Power Management) dialogue boxes, you may enter time-out values for monitor and hard disk drive. Windows power manager saves power by turning off hard drive after 1 minute of inactivities, for example. Consult Windows manual for additional details on Windows power management features.

Suspend Mode

When the battery power reaches critical low (at 3% remaining),the system can be set to enter either one of the two suspend modes:

Suspend

In Suspend mode, only few hardware devices, such as display panel and hard disk, are turned off to conserve energy. The other devices are put into low-power states.

Note:
To learn to adjust the parameters in the BIOS Power Management, go to Section 2 BIOS Setup.

Save To Disk

In this mode, all system data are saved in the hard disk before powering down. When this mode is activated, you will see 3 graphic meters indicating the progress of saving data to the disks. Once the meters reach 100%, the system is completely shut down. No power is drawn from the battery module under this mode. Therefore, it saves the most energy.
However, depending on how much RAM that have been installed on your notebook, the amount of time the system requires to restore all its previous contents can range from 15 to 30 seconds.
In order to use the Save To Disk feature, a hard disk partition is required to store the system content. See the next few pages for instructions on how to create a Save To Disk partition/file.

The Suspend Button

Note:
If your Windows98 is operating on ACPI mode, you may define how the power/suspend button functions. Click on the Power Management icon in the Control Panel or consult Windows98 manual for more information.

This notebook adapts the 'one-button' design, meaning that both the power on/off and system suspend functions are sharing the same physical button. The Power On/Off button also doubles as the Suspend button. You may also active suspend function using the Fn+F1 hot key combination.

Press the suspend/power button or hit any keys to wake the system from the power-on Suspend mode. However, if your notebook is in the Save-to-Disk mode, you must press the power/ suspend button to enable the resume event.

The LCD Panel Switch

Note:
If your Windows98 is operating on ACPI mode, you may define how the system functions when the LCD lid is closed. Click on the Power Management icon in the Control Panel or consult Windows98 manual for more information.

There is a small mechanical switch near the edge of the LCD panel. Closing and opening the LCD panel activates the switch. This switch acts similar to the suspend button. If the suspend mode is set to Suspend, closing the LCD panel begins the Suspend cycle.

Opening the LCD panel or pressing the suspend button wakes the system from the power-on Suspend mode.

Power Consumption of the LCD Display

Your notebook comes with a TFT (active matrix) LCD display. The display is one of the hardware subsystems that tends to consume a lot of power. Whenever possible, you should turn down the display brightness to a bearable level to conserve energy. Turning down the brightness tends to prolong the working life of the back-light lamp in the display.

To decrease the LCD brightness level, press Fn+ F8.

To turn off the LCD display, use hotkey Fn+F4.

Creating the Save To Disk Partition (or File)

Note:
Do not install or remove the memory module when the system is in the Save To Disk suspend mode. Restart the notebook and power down before attempting to change the memory configuration.

The hard drive has a default Save To Disk partition. For example, the maximum system memory allowed is 160 MB; 16 MB is reserved for contents of the video chip and other micro-controllers. Therefore, in order to use this suspend feature under maximum system memory, you would need to increase the Save To Disk partition to 166MB.

To resize or create the Save To Disk partition, do the following:

1. Boot up your notebook to DOS.
2. In the Factory CD-ROM (or diskette) locate a utility program called HDPREPEZ.EXE.
3. Copy all files from this directory to your harddisc.
4. Start HDPREPEZ/C and choose options (“Save to disc” or “Save to partition” mode. Save this configuration file
5. Type HDPREPEZ at the DOS prompt and press Enter.

Warning:
Running the HDPREPEZ.EXE *program in “save to partition mode” will corrupt the data in the HDD. Therefore, reinstalling the software will be necessary.*

When using the “Save to partition” mode, you will need to reformat the hard drive (the DOS partition) and re-install O/S and application programs.

You may create Save To Disk *file* instead of partition. In this case, you do not need to reformat the hard disk and re-install O/S. To create a Save To Disk file, follow the above procedure and enter HDPREPEZ .

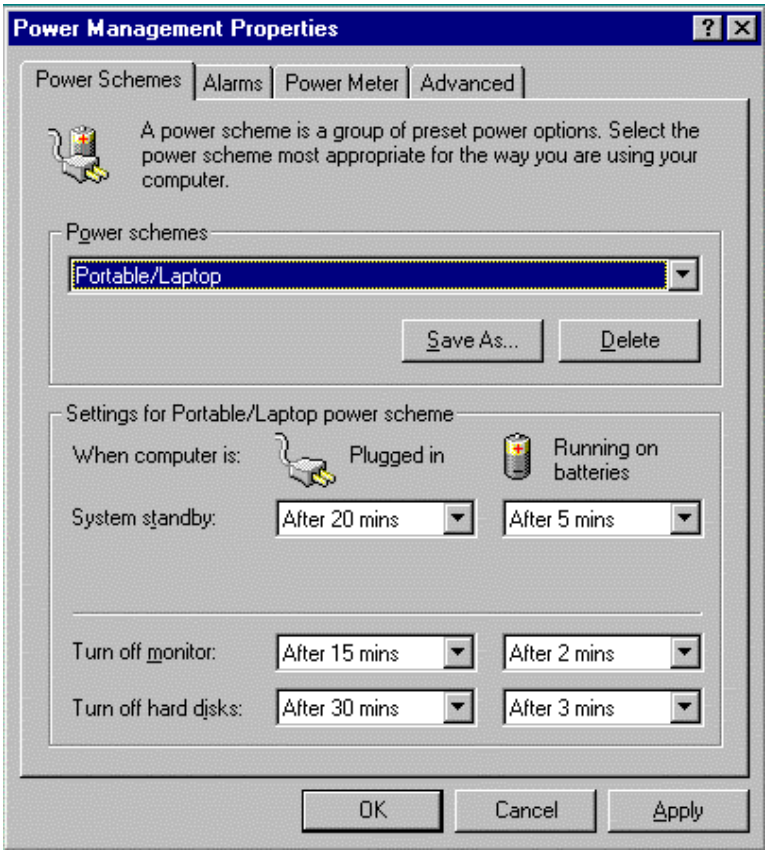
About Windows 98 Power Management Feature

Note:
Consult Windows user guide for more information on how to use the power management functions.

In addition to the notebook`s built-in power management utility, Windows also offers a similar power management feature. To access this feature, go to [My Computer > Control Panel] and double-click on the Power Management icon.

The Windows power management allows you to enter time-out values for the display and hard disk. You can also have your notebook automatically enter a standby mode or shut itself down in the envent of low or critical battery power. For more information on the power saving features, consult Windows on-line help or manual.

Note:
The notebook`s BIOS supports Windows APM and ACPI modes. The illustration on the right shows the Windows legacy APM dialogue. Consult Windows manual on how to enable Windows ACPI mode.



SECTION 4

UPGRADING YOUR NOTEBOOK

In this section, you will learn how to upgrade the memory and hardware capacity.

Upgrading the Hard Disk Drive

Note:
Certain models that come with the IBM-brand hard drive emit a clattering sound when it is being rattled. This is a normal condition.

Replacing the original drive with one of larger capacity can increase the hard drive capacity of your notebook. The notebook uses a 9.5 mm (hight), 2.5-inch Enhanced IDE, Ultra DMA, or ATA-66 type hard disk.

Be sure to make a backup copy of all your data before attempting this operation.

Warning: Hard drive upgrade in this notebook is a delicate process. Please observe the following instructions carefully or have a qualified technician install it for you. Damages due to mishandling of this procedure is NOT covered by the manufacture`s warranty.

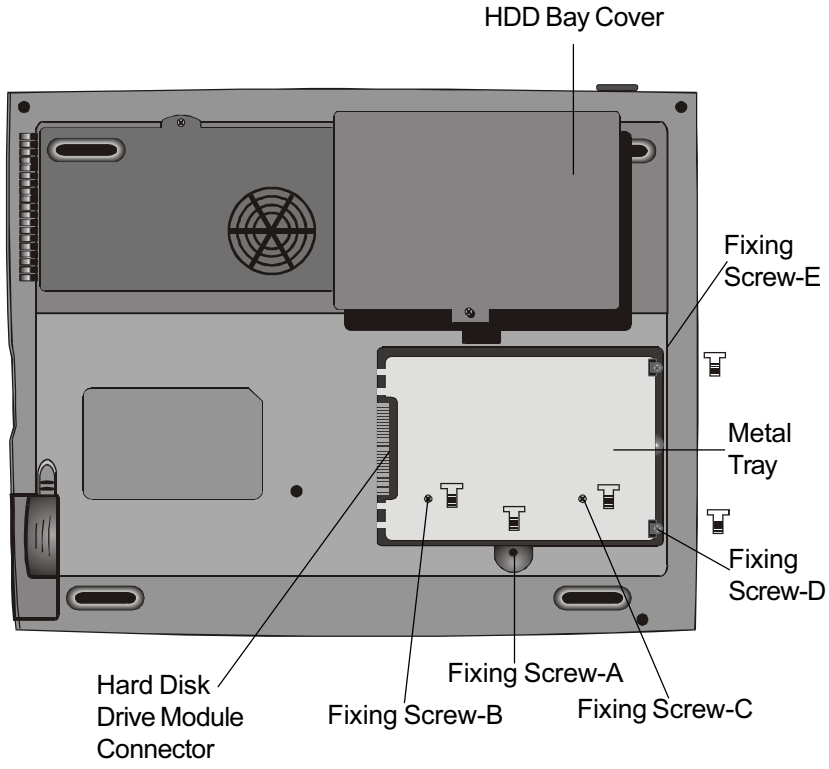
Warning: Apply care when handling the hard disk.

- Do not drop or applay any shock.
- Do not press on the cover.
- Do not touch the connector with your fingertips.
- Mishandling of the hard drive can result in permanent loss of data. Make a backup copy of the drive s content before you remove it.

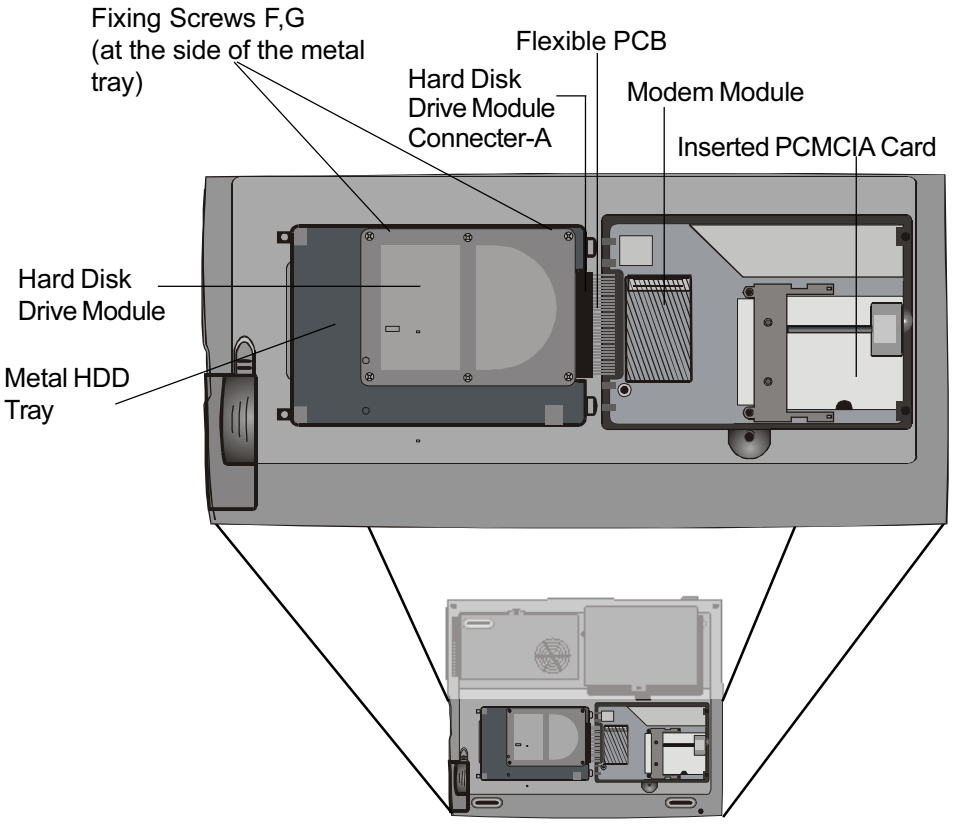
Expanding the Hard Disk Drive

To replace the hard disk drive, do the following:

1. Turn OFF the computer. Unhook the AC cord and all cables/devices attached to the notebook.
2. Place your hand on a large metal object momentarily to discharge any static electricity.
3. Locate the hard disk drive module on the bottom of the notebook.
4. Release the fixing screw-A locked the HDD bay cover.
5. Remove the HDD bay cover as the shown diagram.
6. Now the mental tray protected HDD module and the fixing screws, B and C, reveal.
7. Release the two fixing screws, B and C, securing the mental HDD tray and HDD module.
8. Release the two fixing screws, D and E, securing the mental HDD tray and the unite.



9. Lift up the metal HDD tray 'til an angle of approximately 30 degrees and pull it up as the following illustration.



Illustation 4-1

10. Note the orientation of the HDD module connector-A and carefully remove it from the hard disk drive. (Refer to the illustration <4-2> shown as next page)
11. Locate and remove the rest 2 fixing screws, F and G, securing the metal HDD tray and HDD.
12. Remove the metal HDD tray from the HDD Module. Note the green PC board of the hard disk drive is facing down.
13. Now you may place the new drive unit on the metal tray and replace the fixing screws, B, C, F and G.

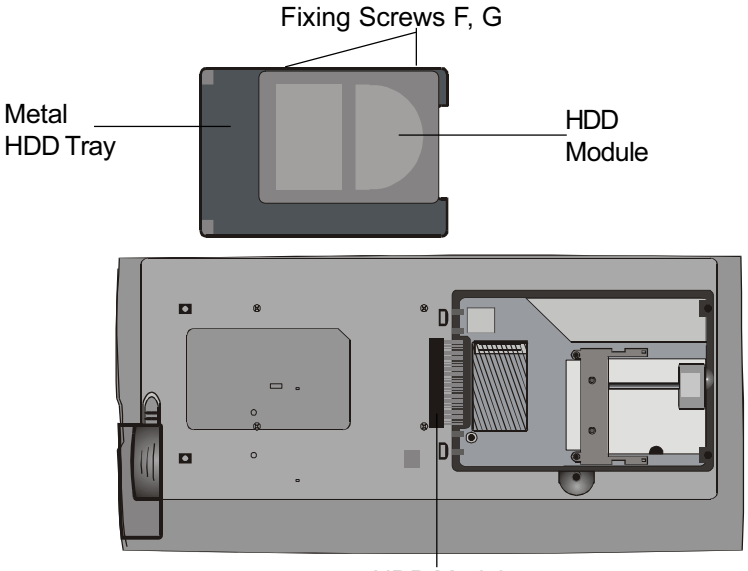


Illustration 4-2

14. Reinstall the connector-A on the new drive unit. Be sure the module makes a firm connection to the base connector.
15. Carefully put the metal HDD tray back to the drive bay.
16. Replace the fixing screws, D and E.
17. Replace the HDD Bay cover.
18. Turn the notebook right-side up, and power it on.

You have now completed the hard drive upgrade.

Once a new hard drive is installed, you need to reformat the disk and re-install the operating system and applications. If you would like to have the Save To Disk suspend function, it is recommended that you re-create the Save To Disk partition *BEFORE* reformatting the HDD because executing the HDPREPEZ utility program will destroy the data on the hard drive and requires you to re-install all software. Go to *Creating Save To Disk Partition,* the end of Section 3, to figure out how this is done.

Upgrading the System Memory

Many applications will generally run faster when the notebook's memory capacity is increased. The notebook provides one expansion socket, located underneath the keyboard, for the memory upgrade. You can increase the amount of memory by adding a dual inline memory module (commonly known as DIMM.) The DIMM can be 16MB, 32MB, 64MB, 128MB or 256MB in capacity. The DIMM is of type Synchronous DRAM, has 144 pins and runs on 3.3V. The speed of the DIMM may be 70ns or 60ns (the smaller number the faster.)

Warning: Memory upgrade in this notebook is a delicate process. Please observe the following instructions carefully or have a qualified technician install it for you. Damages due to mishandling of this procedure is NOT covered by the manufacture's warranty.

Warning: Changing memory while your computer is in suspend or power-saving mode may cause permanent damage to the notebook. Make sure you turn off the power and unplug the AC cord before proceeding with a memory upgrade.

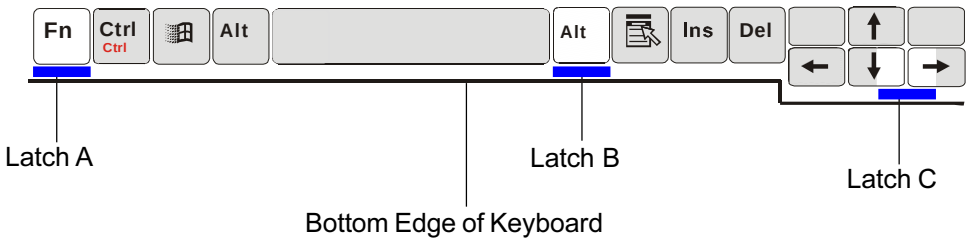
Expanding The DIMM Module In The Original Socket

Warning:
To avoid damaging the DIMM, do not touch its metal contact edge to avid the electro-static damage from static electricity.

To expand the DIMM, do the following:

1. Power OFF the notebook. Unplug the AC cord and all cables/devices attached to the notebook.
2. Place your hand on a large metal object momentarily to discharge any static electricity.
3. Place the notebook on a flat surface and fully open the LCD lid.
4. Find the keyboard latches A, B and C near the bottom edge of the keyboard refering to the figure as below. The latch is spring-loaded. It will retract when pressed and revert back to its original position when released.

Illustration 4-3



5. Using a small blade to press the latch A downward. The keyboard should pop up slightly over the latch. If the keyboard does not pop up, try to gently lift it up just over the latch. Repeat the step for the other keyboard latches.
6. Carefully lift up the bottom edge of the keyboard and the following is revealed.

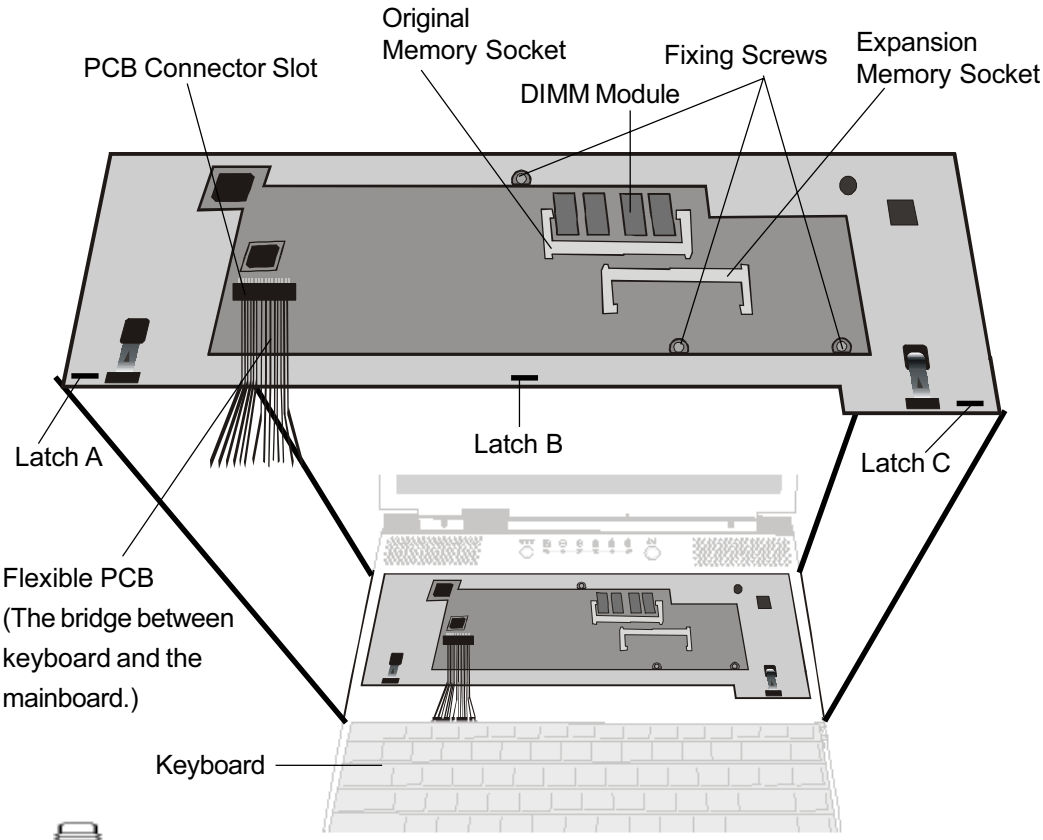
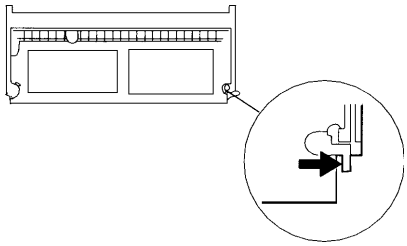


Illustration 4-4

Note:
Your notebook has been tested with a wide range of DIMM on the market. However, not all memory modules are compatible. Check with your notebook vendor for a list of compatible DIMM for your notebook.

7. The memory socket is now revealed as the shown illustration 4-4.

8. Press out on the latches located on both edges of the socket at the same time. The DIMM should pop up to an angle of 30 degree.



Note:
Notice the notches on the DIMM. The notches should fit nicely with the socket.

9. Pull the DIMM module out of the memory socket. Be sure to reserve the DIMM for the future use.

10. Install the DIMM module into the memory socket. The DIMM will only fit in one orientation. Slide the DIMM at an angle of approximately 30 degrees into the empty memory socket. Then press it firmly so that the contact edge is driven into the receiving socket.

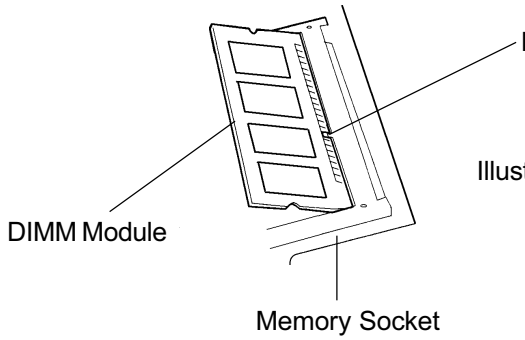


Illustration 4-6

11. Pivot the DIMM until the latches on both sides of the socket snap into place. At the time, you will feel a click.

12. Put the keyboard back to its original face-up position. Be aware of the flexible PCB connected to the keyboard. The keyboard should now be locked by the spring-loaded latches.

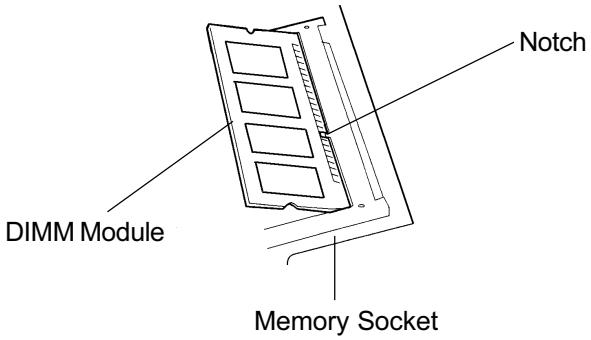
You have just completed the memory upgrade.

Installing the DIMM Module In The Expansion Socket

To remove the memory module, do the following:

1. Follow steps 1~7 in the above section, *Installing the DIMM Module In The Memory Socket*.

2. Hold the extended memory module at a 30-degree angle and slide it into the empty momery socket.



3. Align the small notch in the module with the socket on the connector and gently push it in and down until it clicks in place.

4. Pivot the DIMM until the latches on both sides of the socket snap into place. At the time, you will feel a click.

5. Put the keyboard back to its original face-up position. Be aware of the flexible PCB connected to the keyboard. The keyboard should now be locked by the spring-loaded latches.

You have just completed the memory upgrade.

Removing the DIMM Module In The Expansion Socket

To remove the memory module, do the following:

1. Follow steps 1~7 in the above section, *Installing the DIMM Module In The Memory Socket*.

2. Press out on the latches located on both edges of the expansion socket at the same time. The DIMM should pop up to an angle of 30 degree.

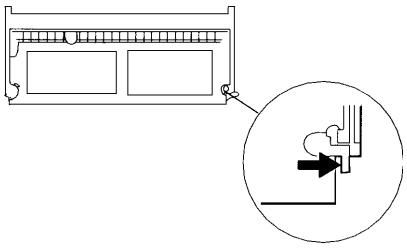


Illustration 4-7

3. Remove the DIMM from the expansion socket. Be sure to save the DIMM for future use.

4. Put the keyboard back to its original face-up position. Be aware of the flexible PCB connected to the keyboard. The keyboard should now be locked by the spring-loaded latches.

5. Power on the notebook and when it starts up note if the memory count has decreased to the original memory capacity.

You have completed the removal of the DIMM.

SECTION 5

TROUBLE SHOOTING

In this section, you will learn how to solve common hardware and software problems.

Your notebook has been fully tested and complies with the system specifications before shipping. However, incorrect operations and/or mishandling during shipment may cause problems.

This section provides a reference for identifying and correcting common hardware and software problems that you may encounter.

When you encounter a problem, you should first try to go through the recommendations in this section. Instead of returning the notebook and waiting for repair, you may easily solve the problems by considering the following problems and possible solutions. If the error continues, contact your reseller for service information.

Before taking further actions, consider the following suggestions:

- Check to see if the problem persists when all the external devices are removed.
- Check to see that the green light indicator on the AC adapter is lit.
- Check to see the power cord is properly plugged to the wall outlet and to the notebook.
- Check to see the power indicator of the notebook is on.
- Check the brightness control on the keyboard if the LCD display appears dim.
- Check to see if your keyboard is operational by pressing and holding any key. An audible beep indicates the keyboard is functioning correctly.
- Check for any incorrect or loose cable connections. Make sure the latches on the connectors latch securely on to the receptor end.

- Be sure you have not performed an incorrect setting on the hardware devices in the BIOS Setup utility. A faulty setting may cause the system to misbehave. If you are not sure of the changes you made, try to restore all the settings to factory defaults.
- Be sure all the device drivers are installed properly. For example, without the audio driver properly installed, the speakers and microphone will not work.
- If external devices such as USB camera, scanner, SCSI card do not function correctly when connected to the system, it is usually the device`s own problem. Consult the device`s manufacturer first.
- Some software programs, which have not gone through rigorous coding and testing, may cause problems during your routine use. Consult the software vendor for problem solving.
- Not all peripheral are plug-and-play capable. You need to restart the system with these devices powered up and connected first.
- Be sure to go to BIOS SETUP and load DEFAULT SETTING after any BIOS updated.

Audio Problems

No speaker output -

- Software volume control is turned down in Microsoft Sound System. Double-click the speaker icon on the lower right corner of the taskbar to see if the speaker has been muted.
- Press Fn+F5 Up increase the volume.
- Most audio problems are software-related. If your notebook worked before, chances are software may have been set incorrectly.
- Go to [Start > Settings > Control Panel] and double-click the Multimedia icon. In the Audio page, make sure that SiS Audio Wave is the preferred playback device.

Sound can not be recorded -

- Double-click the speaker icon on the lower right corner of the taskbar to see if the microphone has been muted.
  1. Click Options and select Properties.
  2. Select Recording and click the OK button.
  3. After Click OK button, the recording volume control panel will pop up as shown.
- Go to [Start > Settings > Control Panel] and double-click the Multimedia icon. In the Audio page, make sure that SiS Audio Wave is the preferred playback device.

Hard Disk Problems

The hard disk drive does not spin -

- If you had just performed a hard disk upgrade, make sure the hard drive connector is not loose and the hard disk drive is also correctly seated. Remove it and reinsert it firmly (feel it clicking into a place), and restart your PC. (Read Section 4 Upgrading Your Notebook for details.)
- Check the hard disk indicator LED. When you access a file, the LED lamp should light up momentarily.
- The new HDD may be defective.
- If your notebook has been subjected to static electricity or physical shock, you may need to reinstall the operating system.

The hard drive is making abnormal whining noises -

- You should back up your files as soon as possible.
- Make sure the source of noise if indeed from the hard drive and not the fan or other devices.

The hard disk drive has reached its capacity -

- Delete backup files or move them to an alternative storage medium (floppy disk, optical disk, etc.). Many programs save backup files. You can delete backup files from the hard disk to create more space for new work.
- Archive files or programs that you had no longer used by moving them to an alternative storage medium (floppy disk, optical disk, etc.) or uninstall programs that no longer use.
- Many browsers store files in the hard drive as a cache to speed up the performance. Check the program's Online Help for instructions on decreasing the cache size.
- Empty the Recycle Bin to create more disk space. When you delete files, Windows copies them to the Recycle Bin.

The hard disk performs pretty slow -

- If you have been using the unit for a period, the files may be fragmented. Go to [Start > Programs > Accessories > System Tools > Disk Defragmenter] to perform a disk defragment. This operation may take a while.

The files are corrupted -

- Run the ScanDisk surface scan to check the platter. (This function is available in Windows 95/98, but not Windows NT). Go to [Start > Programs > Accessories > System Tools > ScanDisk] to perform a disk surface scan. This operation may take a while.

CD-ROM Problems

The CD-ROM drive does not work -

- Try rebooting the system.
- The CD-ROM driver is not loaded. Go to [Start > Settings > Control Panel > System] and in the Device Manager see if the CD-ROM driver is enabled. If you see a red cross or yellow mark, there may have been a resource conflict. See Windows on-line help or manual for more information.
- After you have inserted a CD-ROM disk, it may take a moment before you can access its content.

The CD-ROM drive dose not read any CDs -

- The CD may not be properly seated in the tray. Have CD on the tray and press the CD firmly onto the spindle, also make the retaining clips held the CD in place.

Note:
There are two kind of types of CD-ROM might be installed as shipped. One is electrical and the other is mechnical. Basically, the mobile computor is equipped to electrical CD-ROM. With this device, you can do the CD-ROM ejection only if the system is on. As for bundling the mechnical type, the ejection button works all the time, even the system is powered off. Please be also noted, the mechnical one is not avaliable to eject the CD-Disk by performing Fn key under the running Windows 98 operating system.

Floppy Disk Problems

The floppy disk does not work properly-

- Check the color indicator LED for FDD. When you access a file, the LED lamp should light up momentarily.
- The floppy diskette may be damaged. Try a different diskette to see if the problem persists.
- Check if the disk is fully inserted into the floppy drive.

The floppy drive does not save -

- Check if the tab of the floppy disk is on the write-protect position.
- Have the disk formatted.
- If the disk capacity had been reached, use another disk or remove the existing files to make room for the svaing file.

The diskette does not eject from the drive -

- The metal cover on the diskette might be bent. Contact your local dealer for technical support.
- A label may became detached and is blocking the ejection of the disk. Visually inspect slot to see if any obstruction occurred by the label. Contact your local dealer for technical support.

Display Problems

The display panel is blank when the system is turned on -

- Make sure the notebook is not in the Suspend or Save To Disk modes. The display is turned off to conserve energy in these modes.
- Press Fn+F7 to increase the screen brightness.
- Press Fn+F4 to make sure the notebook is not in the CRT-output only mode.

The screen is difficult to read -

- Press Fn+F7 to increase the screen brightness.
- The display resolution should be set to 1024x768 for optimal viewing.
  1. Go to [Start > Settings > Control Panel] and double-click on the Display icon.
  2. Under the Settings page, click the Adanced icon.
  3. Under the Dispaly Modes page to set the resolution to 1024x768 and choose at least 256 colors.

Keyboard and Pointing Device (Mouse) Problems

The built-in keyboard accepts no input -

- This notebook is designed to use only one keyboard at once time. If you had already connected an external keyboard to the system, the built-in keyboard won't work. Disconnect the external keyboard and try to reboot the notebook.
- If there is no external keyboard connected, still restart the system again.

The external PS/2 or serial mouse does not work -

- Some external mouse comes with special function (such as 3 buttons). In that case you may need to disable the built-in touch pad. Go to Section 2 *BIOS Setup* for instructions on how to disable the internal pointing device.
- A special mouse may require a unique driver. Make sure the driver is properly installed.
- A special external mouse with the thumb-wheel (scroll-wheel) is not plug-and-playable. In order to enable this device, you need to have the mouse connected to the P/S2 port before powering up to Windows. Also, you may need to install the driver, which is specifically designed for this special type of mouse, to make it work.

The built-in touch pad does not work -

- Make sure the internal PS/2 port (pointing device) is enabled (or set to Auto Detect) in the BIOS Setup. Go to Section 2 *BIOS Setup* for details on how to enable the PS/2 mouse.

The built-in touch pad performs eratically -

- Make sure there is no excess perspiration or humidity on your hand which might make the pointing device short. Keep the surface of the touch pad clean and dry.
- Do not rest your hand or wrist on the surface of the touch pad while typing or using the touch pad. Since the pointing device can sense any movement of figertip, to rest your hand on the surface would lead to the sluggish and slow-moving performance.

The characters on the screen repeat while I type.

- You may be holding the keys down for long while you're typing.
- Keep the keyboard clean. Dust and dirt under the keys could cause them to stick.
- Configure the keyboard to wait longer before the auto repeat feature starts. To adjust this feature, Go to [Start > Settings > Control Panel], and double-click on the Keyboard icon. A dialogue box shows up with the adjustable settings for the keyboard.

CMOS Problem

A message "CMOS Checksum Failure" displays during the booting process -

- If the message "CMOS Checksum Failure" appears during the booting procedure, it might indicate the shortage or the run-down condition of the small CMOS (Complementary Metal-Oxide Semiconductor) battery. If so, you need to renew the CMOS battery.

  In the life cycle test, it illuminates one to one and half years as lasting operation. Since most users don't operate the system continually in reality, the Ni-Cd CMOS battery might run out of power after 3 or 5-year usage. In another word, the CMOS battery replacement needs to be done after a long operating period.

  For more detail information or technical support, please constact your local dealer or distributor.

Infrared Problems

The infrared communication port does not work -

- If you had just compeleted Windows 98 setup process, you need to update the loaded FIR driver. The steps listed below will guide you through the process of renewing the IrDA driver.
  1. Go to [Start > Settings > Control Panel > System], click the Device Manager tab.
  2. In the Device Manager, double-click the Network Adapters, select IrDA 3.0 Fast Infrared Port under Network Adapters item and press Property button.
  3. In the Network Properties page, click the Driver tab and press Update Driver button.
  4. In the Update Driver Wizard window, click Next.
  5. Select “Display a list of all the driver in a specific location” and click Next.
  6. In the Select Device windows, select “Show all devices”, “National Semiconductor“ as manufaturer and “NSC-PC87338 Fast Infrared Prot” as model. (If you can not find National Semicondutor in the manufacturer column, please click Have Disk button and insert the factory CD-ROM and input the path which the driver located.)
  7. Then, a updating driver warning dialog pops up, and click OK.
  8. Click Next button and Finish button in the following Update Driver Wizard windows.
  9. Restart the computer.
  10. Go to [Start > Settings > Control Panel > Network], select “NSC-PC87338 Fast Infrared Port” and press the Proprety button.
  11. In the NSC-PC87338 Fast Infrared Port Properties page, click the Advanced tab. And then, select “Infrared Transceiver A” and set “HP HSDL-2300” in the Value column. Still, a warning dialog shows up and click “OK”.
  12. Click OK button and Yes button in the following screens.
  13. Reboot the system.

- Windows NT 4.0 does not support infrared devices.
- Remove any objects that sit between the communicating path.
- Make sure the communicating devices are not more than 1 meter apart and are aligned in a straight-line fashion.
- Make sure that IR device is enabled in the Control Panel. If the infrared icon at the lower right corner of the task bar has a red 'x symbol, it is being disabled. Click on the icon and in the Option page check off the Infrared Communication item.
- Check the infrared setting in BIOS Setup utility. Go to Section 2 BIOS Setup to find out how this is done. If you are using Windows 95 and have enabled Fast IR option in the BIOS Setup, you must load the vendor-specific IR driver manually for it to work (Windows 95 comes with standard IrDA driver only.)

Memory Problems

The POST does not show an increased memory capacity when you have already installed additional memory -

- Certain brands of memory module may not be compatible with your system. You should ask your vendor for a list of compatible makers of the DIMM.
- The memory module may not be installed properly. Go back to Section 4 *Upgrating Your Notebook* to review the details of this operation.
- The memory module may be defective.

The O/S issues an insufficient memory error message during operation -

- This is often a software or Windows-related problem.
- Close the application programs you're not using and restart the system.
- Otherwise, you have to install additional memory module. For instructions, go to Section 4 *Upgrading Your Notebook*.

Modem Problems

The built-in modem does not respond -

- Make sure the modem driver is loaded properly.
  Go to [Start > Settings > Control Panel > Modem] and make sure Smart Link 56K Modem is listed in the Modems Property page. Otherwise, click the Add button to add the modem drive, which is located in the factory CD-ROM (or floppy diskette).
- Go to [Start > Settings > Control Panel > System] and in the Device Manager page check for possible resource or driver conflict. See Windows on-line help or manual for how to handle such problems.
- Make sure the phone line the notebook connected to is valid.

The fax/modem disconnects during transmission -

- Be sure to disable the Call Waiting.
- Excessive line noise might cause the connection to be dropped and maybe you had connected to a noisy line. To check this, put the regular phone handset on the line and placing a phone call. If you do hear an amount of abnormal noise, try to make the modem connection with a different line or contact your local telephony service company.
- Make sure the correct setting of the communications software. Check with the manaul of the programs to customize the modem.

The fax/modem doesn't transmit properly -

- Make sure the RJ-11 cable (the one that goes from the modem to the telephone line) is firmly connected to the modem's RJ-11 jack and the telephone line socket.
- Check the serial port settings. Make sure the hardware and software are referring to the same COM port.
- Check the communications parameters (baud rate, parity, data length and stop bits) specified in the communications program.
- The connecting system, such as the central side equipment, might be busy or offline. Try to make another transmission test to other sytem.
- Be sure the line has a dial tone.

Network Adapter Problems

The Ethernet adapter does not work –

- Go to [Start > Settings > Control Panel] and double click the System icon. Select the Device Manager tab from the System Properties. Double-click on Network Adapters and check if SiS 0900 PCI Fast Ethernet Adapter appears as one of the adapters. If it does not exist, Windows has not detected the SiS adapter or the device driver has not been installed. If there is a yellow mark or red cross on the SiS network adapter, there may be a device or resource conflict. Consult Windows manual on how to solve this problem.
- Make sure the physical connections on both ends of the cable are good.
- The hub or concentrator may not be working properly. Check to see if other workstations connected to the same hub or concentrator are working.
- Try restarting Windows with the port replicator already connected to the network.

The Ethernet adapter does not appear to operate in the 100Mbps transmission mode –

- Make sure the hub you are using supports 100Mbps operation.
- Make sure that your RJ-45 cable meets the 100Base-TX requirements.
- Make sure the Ethernet cable is connected to the hub‘s socket that supports 100Base-TX mode. The hub may have both 100Base-TX and 100Base-T sockets.

PC Card (PCMCIA) Problems

PC Cards do not function-

- Make sure you have properly installed the driver for the card.
- Consult the card`s manual or contact the vendor for trouble-shooting.

The PC card can not be recognized-

- Windows NT4.0 does not support PCMCIA (PC Card) function. You may need an external program for this.
- Make sure the card is fully inserted; the outer end of the card should be even with the edge of the notebook.
- Remove and insert the PC card again.
- Make sure there is no IRQ conflict with the card. See Windows on-line help for solving IRQ conflicts.
- Reboot the notebook and see if the problem persists.
- The card may be defective. Try the card on another system, if possible.

Windows crashes or freezes when you remove the PC card-

- Make sure you have <Stop> the PC card before removing it. Click on the PC card icon at the lower right corner of the task bar and select the card you wish to stop. When you click <OK>, in few seconds Windows will prompt you to remove the card.

Performance Problems

The notebook becomes hot -

- In a 35°C environment, the notebook's bottom case is expected to reach 50 degrees.
- Make sure the air vents are not blocked.
- If the fan does not seem to be working at high temperature (50 degrees Celsius and up), contact the service center.
- Certain programs that are processor-intensive may increase the notebook temperature to a degree where the notebook automatically slows down its CPU clock to protect itself from thermal damage.

The program appears stopped or runs very slowly -

- Press CTRL+ALT+DEL to see if an application is still responding.
- Restart the notebook.
- This may be normal for Windows when it is processing other CPU-intensive programs in the background.

- You may be running too many applications. Try to close some applications or increase system memory for higher performance.
- You may have selected Maximum Power Savings or Idle Mode. These power saving options slow down the CPU to conserve power. See Section 2 *BIOS Setup* and Section 3 *Battery Power / Power Management* for more information.

Power, Start, and Battery Problems

The notebook powers down as soon as it is powered on -

- Battery power may be extremely low. The circuitry prevents a complete power drain, which is not intended for Lithium Ion batteries. Use the adapter to charge it for several hours before trying again.

The notebook beeps intermittently -

- When battery charge is critically low, an audible beep warns you. Press Fn+F3 to turn off the warning beep.

The battery life gets shorter and shorter -

- The battery has a finite life of about 500 charge cycles. If your battery is over one or two years old, it may be time to have it replaced.
- Try a higher power saving setting in the BIOS or in the Windows Power Management.

The battery does not charge -

- Make sure the AC adapter is plugged into a valid power source.
- Check to see if the green lamp on the adapter is lit when it is plugged in.
- The battery charge indicator LED on the notebook should be lit when you plug in the AC adapter.
- Make sure the battery module is fully inserted in its bay; make sure the battery latch is in locked position.
- If the battery is operating at a very high temperature, it may not charge.

Printing Problems

The printer does not print -

- Make sure the cable connection is secured and the printer is powered up.
- Run the printer self test to investigate any problem of the hardware itself.
- Check if the printer displays any error messages. A paper jam may have occurred.
- Make sure you have already installed the printer driver.
- Most printer (using parallel or serial port) problems are software-related. Consult Windows on-line help or contact the printer vendor for assistance.
- Try rebooting the system with the printer powered up and connected first.

The printer does not print what's on the screen -

- The display information on the screen is different from what would print out and this happend in many software program. Check if the preview function is in the taskbar and see if the working document show exactly as it print. Contact the software provider for technical support.
- If the printer print the extra and strange symbols, it is the result of the cache (garbage) in the printer momery buffer. Call off all the printer task and toggle off the printer switch to refresh the momery buffer. Then, trun the printer back online and print again.
- Make sure you install the correct printer driver.

The printer does not respond to infrared communication -

- See Infrared Problems listed elsewhere in this section.

Serial, Parallel, and USB Problems

The device that attached to the serial port is not working -

- Make sure the cable is fully connected.
- Maybe you have a broken cable or a wrong type cable, try replacing the cable.
- Check the device setting in the Windows Control Panel, [Start > Settings > Control Panel > System > Device Manager], and in the BIOS to be sure that the port is enabled. If the port is disabled, the system won't communicate with any external devices connected to the port.
- Make sure the port is set properly to the correct value (COM1 or COM2) to activate the serial port. Check the device settings in the Windows Control Panel and in the BIOS. If it is set to another value and you have made no change to avoid the conflict with another device, set it to the correct COM port. (COM 1 usually is the default one.)
- The serial-port devices may not *be plug-and-play* capable. Reboot the notebook with the devices powered up and connected first.

The Parallel Port does not work -

- Make sure the cable is fully connected.
- Check the device settings in the Windows Control Panel and in the BIOS.
- The parallel-port devices may not *be plug-and-play* capable. Reboot the notebook with the devices powered up and connected first.

The USB device does not work -

- Windows NT 4.0 does not support USB protocols
- Check the settings in the Windows Control Panel.
- Make sure you have installed the necessary device drivers.
- Contact the vendor for additional support.

APPENDIX A

PRODUCT SPECIFICATION

Processor and Core Logic

• *Processor*	Intel Celeron / PIII processor. Socket Type, FCPGA package
• *L1 Cache*	32KB (16KB for Code Instruction, 16KB for Data) on-die.
• *L2 Cache*	128KB/Celeron, 256KB/PIII Cache on-die.
• *Core logic*	SiS chipset with graphic, audio and modem controller integrated
• *Bus Architecture*	66 /100 MHz Front Side Bus, PCI / AGP.

System Memory

• *Memory Type*	Synchronous DRAM system memory.
• *Defualt*	32MB, 3.3-Volt 64-bit bus
• *Memory Expanssion*	Two 144-pin SO-DIMM socket accept 64MB, 128MB, or 256MB SDRAM modules in any combination for system memory expansion up to 512MB.

LCD

• *Display Panel*	14.1-inch XGA active-matrix TFT display supported resolution 1024x768 with up to 16M colors.

Graphics

• *Graphic Controller*	SiS 630S with integrated AGP bus 2D/3D graphics accelerator.
• *Graphics Ability*	UltraAGP architecture graphics capability (similar to 4X AGP). 3D Graphics Supported.
• *Playback*	Direct DVD MPEG-2 Playback supported. Motion Compression and IDCT supported for DVD Playback.
• *Dual Display*	Simultaneous LCD/External Monitor supported. Dual Independent LCD and External Monitor Display supported. Dual Application Capacity.
• *Memory Sharing*	UMA architecture with 8/16/32/64 system memory sharable as display memory.
• *Other Features*	Direct3D compatible. Fully DirectX 6.0 Compliant Graphics Engine. VESA DDC1, DDC2B & DDC 3.0 supported.

Storage Capacity

- *Hard Disk* — 2.5-inch / 3-inch format (9.5mm height) removable drive with capacity of 6.0GB and above
- *Diskette Drive* — 3.5-inch format fixed module with accommodating 3 modes as 720KB, 1.44MB, and 1.2MB.

Audio

- *Audio Chipset* — SiS 630S with integrated audio controller
- *Sound Capability* — 64-voice Polyphony Wavetable Synthesizer.
  DirectSound 3D accelerator for IID, IAD and Doppler effects.
  Full duplex, independent sample rate converter.
  SoundBlaster Pro/16 compliant.
  AC'97 V2.1 interface supported.
  Full deplex and independent sample rate converter for audio recording and playback.

Modem

- *Chipset* — Smart Link 56K Modem
- *Transmission Speed* — V.90 / K56flex for download data speed up to 56000bps.
  V.34, V.17, V.29 transmission protocol.

LAN

- *Network Adapter* — SiS 630S with integrated PCI Fast Ethernet function for 10Base-T and 100Base-TX network standards.
- *PnP Function* — Windows 95 / 98 Plug and Play compatible
- *Flow Control* — Automatic Jam and auto-negotiation for flow control.
- *Speed Seletion* — Auto Negotiation and Parallel detection for automatic speed selection (IEEE 802.3u).
- *Other Features* — High performance 32-bit PCI bus master architecture with integrated DMA controller for low CPU and bus utilization.
  Remote Wake-up Scheme supported.
  Hot Insertion supported.

Other Standard Hardware

• *CD-ROM*	5.25-inch format (12.7mm height) fixed module with 24X speed.
• *DVD ROM*	5.25-inch format (12.7mm height) fixed module. (Optional)
• *Keyboard*	87-key touch-type QWERTY keyboard with embedded numeric Keypad.
• *Pointing Device*	TouchPad with 2 buttons.

PC Card

• *PCMCIA Controller*	O2Micro OZ 6812 / 6912 controller.
• *Features*	Single slot for TYPE II / III PC Cards with Card Bus 1.0 interface, having hot insertion and removal supported, enabling connection to peripherals as multimedia communications.

Ports

• *VGA Port*	One 15-pin CRT connector
• *Audio Port*	One stereo line-out jack & One momo microphone-in jack
• *Infrared Port*	One FIR LED
• *Parallel Port*	One 25-hole parallel connector (ECP / EPP)
• *Serial Port*	One 9-pin serial connector (16550A / FIFO)
• *USB Port*	One USB connector
• *PS/2 Port*	One connector for keyboard / PS/2 mouse
• *Modem Port*	One standard phone jack (RJ-11)
• *LAN Port*	One standard network connector (RJ-45)
• *Power Port*	One DC-in connector

Power

• *Main Battery*	Li-Ion 8-cell, 47.4 Whrs (total capacity), 14.8V, 3600mAh.
• *AC Adapter*	100~240V, 50~60Hz, 20/60W.
• *Recharge*	System OFF: ~3 HR (100%) System ON: ~6 HR (100%)
• *Other Features*	Low Battery Warning Suspend / Resume capability

BIOS

• *PnP Function*	AMI PnP BIOS
• *Self Test*	Power On Self Test
• *Auto Detection*	DRAM auto-detection, auto-sizing L2 Cache auto-detection Hard disk type auto-detection
• *Power Management*	APM 1.2 (Advanced Power Management) & ACPI 1.0 (Advanced Configuration Power Interface)
• *Security*	Two Level Password Protection
• *Other Features*	32bit access, Ultra DMA, PIO5 Mode support Multi-boot capability

Operating System

• *O/S*	Microsoft Windows 98 / ME / 2000 Microsoft NT 4.0

Phsical Specification

• *Weight*	256 (D) x 315 (W) x 44 (H) mm
• *Environmental Limitations*	6.5 lbs (with CD-ROM & FDD) Operating Temperature: 5 to 35°C (41 to 95°F) Operating Humidity: 20 to 90 percent RH (5 to 35°C) Storage Temperature: -20 to 50°C (-4 to 122°F)

Note:
There are two kind of types of CD-ROM might be installed as shipped. One is electrical and the other is mechnical. Basically, the mobile computor is equipped to an electrical CD-ROM. With this device, you can do the CD-ROM ejection only if the system is on. As for bundling the mechnical type, the ejection button works all the time, even the system is powered off. Please be also noted, the mechnical one is not avaliable to eject the CD-Disk by performing Fn key under the running Windows 98 operating system.

Note: Product Specifications are subject to change without notice or obligation.

APPENDIX B

SPECIAL VGA FUNCTIONS

In this section, you will learn how to take advantage of the special DualView feature via the VGA controller.

The VGA controller (graphics processor) on your notebook is capable of DualView function. This unique display feature allows you to work efficiently when you have access to an external CRT monitor or RGB projector for a large audience presentation. With DualView, you can access separate Windows applications on the TFT display and on the CRT monitor simultaneously and independently.

If the VGA driver and SIS Control Panel program have not already installed on your notebook, use the following precedures to install them first.

Windows Display Driver Installation / Update

To install/update the driver, do the following:

1. Insert the Driver CD
2. The drivers are located in the directory: D:\drivers\VGA\OS (Win9x- Win Me - Win NT...)
3. Doubleklick on setup.exe. The drivers will be installed.
4. Restart the computer - the enhanced functions are available.

Using the DualView Function

With DualView function, you have gained twice as much desktop space without having to purchase additional graphics controller card.

DualView allows you to run different applications independently across two display device. (For example, the external CRT and notebook`s LCD display).

Important:
Instructions to activate the DualView function:

1. Right-click on the SiS icon located at the lower right-hand corner of the Windows task bar.
2. Go to [Display Property > Display Setting], choose the folder >display modes.
3. Deactivate the “Auto” function in the primary display.

4. Choose in the driver mode the “multimonitor mode”.
5. Click on “Apply” and restart the computer.
6. Now the “Dual View” function is available.

APPENDIX C

AGENCY REGULATORY NOTICES

Federal Communications Commission Notice

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and the receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or television technician for help.

Modifications

The FCC requires the user to be notified that any changes or modifications made to this device that are not expressly approved by the Manufacture may void the user's authority to operate the equipment.

Connections to Peripheral Devices

Connections to this device must be made with shielded cables with metallic RFI/EMI connector hoods to maintain compliance with FCC Rules and Regulations.

Declaration of Conformity

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

European Notice

Products with the CE Marking comply with both the EMC Directive (89/336/EEC) and the Low Voltage Directive (73/23/EEC) issued by the Commission of the European Community.
Compliance with these directives implies conformity to the following European Norms:

- EN55022 (CISPR 22) Radio Frquency Interference
- EN50082 (IEC801-2, IEC801-3, IEC801-4) Electro-magnetic Immunity
- EN60950 (IEC950) Product Safety

Canadian Notice

This digital apparatus does not exceed the Class B limits for radio

noise emissions from digital apparatus as set out in the radio interference regulations of the Canadian Department of Communications.

Le present appareil numerique nemet pas de bruits radioelectriques depassant les limites applicables aux appareils numeriques de Classe B prescrites dans le reglement sur le brouillage radioelectrique edicte par le Ministere des Communications du Canada.

Power Cord Requirement

The power cord supplied with the notebook AC adapter should match the plug and voltage requirements for your local area. Regulatory approval for the AC adapter has been obtained using the power cord for the local area. However, if you travel to a different area and need to connect to a different outlet or voltage, you should use one of the power cords listed below. To purchase a power cord (including one for a country not listed below) or a replacement ac adapter, contact your local dealer.

U.S. and Canada

- The cord set must be UL-Listed and CSA-Certified.
- The minimum specifications for the flexible cord are (1) No. 18 AWG, (2) Type SJ, and (3) 3-conductor.
- The cord set must have a rated current capacity of at least 10 A.
- The attachment plug must be an earth-grounding type with a NEMA 5-15P (15A, 125V) or NEMA 6-15P (15 A, 250V) configuration.

Japan

- All components of the cord set (cord, connector, and plug) must bear a `T` mark and registration number in accordance with the Japanese Dentori Law.
- The minimum specification for the flexible cord are: (1) 0.75 mm^2 conductors, (2) Type VCT or VCTF, and (3) 3-conductor.
- The cord set must have minimum rated current capacity of 7 A.
- The attachment plug must be a two-pole, grounded type with a Japanese Industrial Standard C8303 (15 A, 125 VAC) configuration.

Other Countries

- The cord set fittings must bear the certification mark of the agency responsible for evaluation in a specific country. Acceptable agencies are:
  - BSI (UK)
  - OVE (Australia)
  - CEBEC (Belgium)
  - SEMKO (Sweden)
  - DEMKO (Denmark)
  - SETI (Finland)
  - EANSW (Australia)
  - SEV (Switzerland)

IMQ (Italy)
UTE (France)
KEMA (The Netherlands)
VDE (Germany)
NEMKO (Norway)

- The flexible cord must be of a HAR (harmonized) type HO5VV-F 3-conductor cord with a minimum conductor size of 0.03 square inches.
- The cord set must have a current capacity of at least 10 A and a nominal voltage rating of 125 / 250 VAC.

Battery Safety

- The battery pack is intended to use only with this notebook.
- Do not disassemble the pack.
- Do not dispose of the battery pack in fire or water.
- To avoid risk of fire, burns, or damage to your battery pack, do not allow a metal object to touch the battery contacts.
- Handle a damaged or leaking battery with extreme care. If you come in contact with the electrolyte, wash the exposed area with soap and water. If it contacts the eye, flush the eye with water for 15 minutes and seek medical attention.
- Do not charge the battery pack if the ambient temperature exceeds 45°C (113°F).
- To obtain a replacement battery, contact your local dealer.
- Do not expose the battery pack to high storage temperatures (above 60°C, 140°F).
- When discarding a battery pack, contact your local waste disposal provider regarding local restrictions on the disposal or recycling of batteries.

CAUTION: Danger of explosion if battery is incorrectly replaced. Replace only with same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer`s instructions or local laws.

VORSICHT! Explisionsgefahr bei unsachgernazen Austausch der Batterie. Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ahnlichen Typ. Entsorgung gebrauchter Batterien navh Angaben des Herstellers.

CAUTION: MODEL 340 FOR USE WITH POWER SUPPLY MODEL LSE9802A2060
ATTENTION: MODEL 340, POUR UTILISER AVEC LE MODELE LSE9802A2060

Laser Safety

The CD-ROM drive used with this notebook are certified as a Class 1 laser device according to the U.S. Department of Health and Human Services (DHHS) Radiation Performance Standard and International Standards IEC 825 / IEC 825-1 (EN60825 / EN60825-1). The device is not considered harmful, but the following precautions are recommended:

- Do not open the unit.
- Avoid direct exposure to the laser beam.
- If the unit requires service, contact an authorized service center.
- Ensure proper use by reading and following the instructions carefully.
- Do not attempt to make any adjustment of the unit.

CLASS 1 LASER PRODUCT
APPAREIL A LASER DE CLASSE 1
LASERSCHUTZKLASSE 1 PRODUKT

LED (Infrared) Safety

The infrared port located on the left side of this notebook is classified as a Class 1 LED (light-emitting diode) device according to International Standard IEC 825-1 (EN60825-1). This device is not considered harmful, but the following precautions are recommended:

- Do not attempt to view the infrared LED beam with any type of optical device.
- Do not attempt to make any adjustment of the unit.
- If the unit requires service, contact an authorized service center.
- Avoid direct eye exposure to the infrared LED beam. Be aware that the beam is invisible light and cannot be seen.

CLASS 1 LED PRODUCT
LEDSCHUTZKLASSE 1 PRODUKT

CD-ROM warning

Warning! Do not attempt to disassemble the cabinet containing the laser. The laser beam used in this product is harmful to the eyes. The use of optical instruments, such as magnifying lenses, with this product increase the potential hazard to your eyes. For your safety, have this equipment serviced only by an authorized service provider.

CLASS 1 LASER PRODUCT
LASER KLASSE 1
LUOKAN 1 LASERLAITE
APPAREil A LASER DE CLASSE 1
EN60825-1

Lithium battery warning

This computer contains a lithium battery to power the clock and calendar circuitry.

CAUTION: Danger of explosion if battery is replaced incorrectly. Replace only with the same or equivalent type recommended by the manufacturer. Discard used batteries according to the manufacturer's instructions.

ATTENTION: Il y a danger d'explosion s'il y a remplacement incorrect de la batterie. Remplacer uniquement avcc unc batterie du méme type ou d'un type recommandé par le constructer. Mettre au rébut les batteries usagées conformément aux instructions du fabricant.

VORSICHT! Explosionsgefahr bei unsachgemäßen Austausch der Batterie Ersatz nur durch denselben oder einem vom Hersteller empfohlenem ähnlichen Typ. Entsorgung gebrauchter Batterien nach Angaben des Herstellers.

Der Arbeitsplatzbezogene Schalldruckpegel nach DIN 45 635 beträgt 70dB (A) oder weniger.

Zum Netzanschluâ dieses Gerätes ist eine geprûfte Leitung zu verwenden. Fûr einen Nennstrom bis 6A und einem Gerätegewicht größer 3kg ist eine Leitung nicht leichter als H05VV-F, 3G, 0.75mm^2 einzusetzen.

Die Steckdose muß nahe dem Gerät angebracht und leicht zugänglich sein.